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Gro. J. Ball
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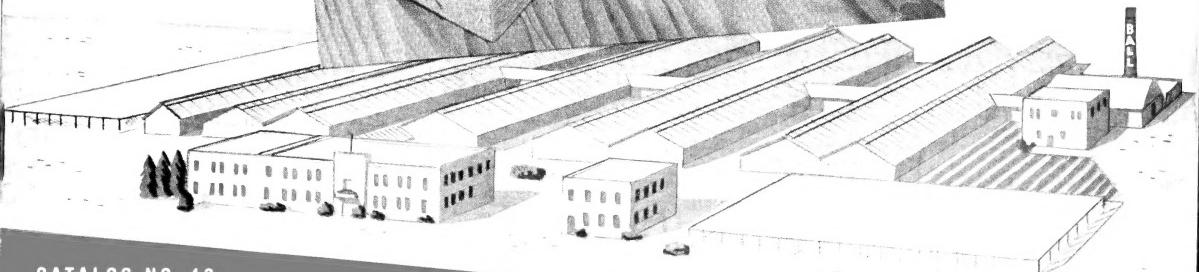
★ JAN 20 1943 ★

U. S. Department of Agriculture

THE FINEST
Dwarf Marigolds

Top - Butterball
Right - Spry
Bottom - Sunkist
invaluable for bedding
and combinations.

See page 13



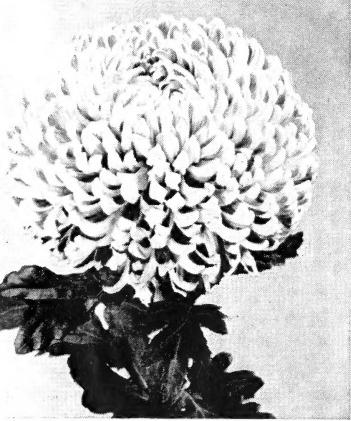
CATALOG NO. 46
JANUARY, 1943

"^{BETTER}
Flower Seeds for, ^{morale and} Florists"

PLANT DEPARTMENT



A view of Olivette, one of the best White Carnations. George J. Ball giving it his approval.



CAMBRIA •
Golden Bronze—Blooms October 25th. Excellent.
Below: APRICON • One of the new Pom Poms.



The Florists and Growers of America

have realized that the high quality of Ball's seeds have earned a reputation second to none in the horticultural world. Our methods of carefully watching our sources of supply of all stock that we sell plus our well-known service to our customers, has made our slogan "All the Best—Nothing Else" a byword to the florists. Some years ago we began furnishing mum cuttings to the trade; our increasing yearly volume is very gratifying. Our well satisfied customers began to ask us for other greenhouse material. Two years ago we installed a plant department to furnish our customers with all plants and bulbs necessary for greenhouse operation. We wish to thank our many friends for their response. It greatly exceeded our expectations.

MUMS AND CARNATIONS

Our list of these two items will be ready for mailing in December, write for your copy. It contains cultural directions and suggestions as to which are the best varieties of Mums and Carnations for the average grower to plant. Our cuttings of both these items are produced by specialists.

FOR DELIVERY IN SEASON

We can furnish you exceptional stock of all greenhouse plants.

AZALEAS—Spring delivery of growing on stock, Fall delivery of dormant plants.

BEGONIAS—(Melior types) May and June delivery, extra high quality of 2½" plants.

POINSETTIAS—Spring delivery stock plants, Summer delivery of 2½".

HYDRANGEA—Spring delivery of young stock, Fall delivery of dormant plants.

GERANIUMS—Delivery during the year, out of 2½" only.

ROSES—Dormant Started eyes for cut flowers, Dormant plants for Spring pot plants.

All of the above items are in short supply and should be ordered six months or a year in advance, so as to avoid being disappointed in not securing the exact variety of stock wanted.

AMERICAN GROWN BULBS

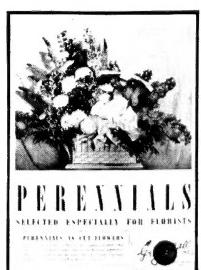
From the best growers in the bulb-producing sections of the United States come Lilies, Daffodils, Iris, Tulips, Callas, Amaryllis, Caladium, Tuberous Rooted Begonias, Gloxinias, Cinerarias, Ranunculus, Freesia and Gladiola.

We can deliver these bulbs in season. Place orders early for next year's supply; many varieties will be scarce.

Quotations given on any of the above greenhouse items.

Geo. J. Ball
I N C.
WEST CHICAGO
ILLINOIS

Write for this 34 page Perennial catalog. It contains a list of the perennials best adapted for cut flowers. →



PERENNIALS
SELECTED ESPECIALLY FOR FLORISTS

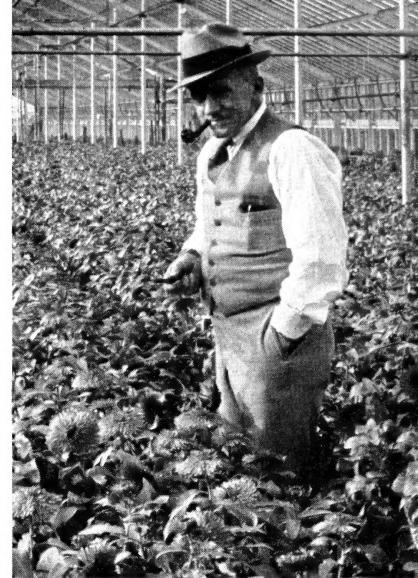
PERENNIALS AS CUT FLOWERS

40-10

The War Time Florist

Requiring few or no essential priorities and with women so well adapted to much greenhouse work, we florists are particularly fortunate. Not only can we carry on without interfering with the war effort, but our product is needed for its morale building value. And don't forget this:—there will be an active demand for every good plant or flower you can produce throughout the duration. And along with our product, don't overlook the demand and need for vegetable plants; some space in tomatoes, radishes, lettuce, etc., will be a food contribution to our country and a profit to us. We continue well equipped to supply you with seeds, plants and service. Let's carry on to the best of our ability.

Geo. J. Ball.



Ball Calendula and the man who originated every long-stemmed cut flower variety in use today. This was 25 yrs. back, and the sale of this seed developed into Geo. J. Ball, Inc.

Catalog No. 46—January 1943—Business Terms

Note—Cash Discount! When cash is enclosed, a discount of 5% is allowed on all orders from \$1.00 to \$25.00. On \$25.00 and over, 8% is allowed. Prices quoted on Cyclamen seed and Plant Bands however are net, no cash discount. Plant and Bulb prices are net unless quoted otherwise in special catalogs or lists.

Cash should accompany all orders unless credit has been established.

Important. Make all checks or money orders payable to **Geo. J. Ball, Inc., West Chicago, Illinois.**

Note. Our seed sold only in our printed packets or containers. Order from us only or thru our regular agents.

All Prices in this catalog subject to change without notice.

All Seed Orders sent prepaid to U.S. and Canada at catalog prices.

Air Mail Delivery with postage paid if 8c per oz. is allowed for postage, which includes shipping envelopes.

Our address is **West Chicago, Illinois**, on Highways U.S. 330 or Illinois 64—and on Chicago and Northwestern Ry. You are always welcome here.

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NEW! AND OF SPECIAL VALUE

We have carefully gone over our list of 1600 or more varieties for 12 (twelve) that we and the general demand considers of outstanding or standard value. Better take time to consider them carefully. They are as follows:

PETUNIA**Ball Dwarf Giant No. 1**

The most uniformly dwarf strain of Giants: around 90% true Giants most valuable as a spring pot plant in 3 or 4's. Sow early and grow cool near the glass. $\frac{1}{2}$ tr. pkt., 75c; Tr. pkt., \$1.25; $\frac{1}{4}$ oz., \$2.50; $\frac{1}{2}$ oz., \$4.50; $\frac{1}{16}$ oz., \$8.00.

PETUNIA**Celestial Rose Imp.**

The best available strain of this ever popular bedding. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$9.00; 4 oz., \$30.00.

MARIGOLD Spry

Mahogany and bright yellow are attractively combined in this very uniformly dwarf French variety.

Outstanding for combinations and bedding. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75; 4 oz., \$5.50.

BALL White Early Aster

We annually select, very rigidly, our stock seed of this variety that we originated 38 years back. It is as full petalled as asters can be had, 100% rot resistant with us, along side some that go down 100%. Our seed crop of it is not heavy this season. Tr. pkt., 30c; $\frac{1}{4}$ oz., 60c; 1 oz., \$1.85; 4 oz., \$6.50.

IPOMOEA Pearly Gates

Except for a slightly creamy throat, this is a pure white Morning Glory. Sow early in March and grow in 4s for May flowering. This and Cornell and Heavenly Blue provide the red, white and blue that are wanted. Tr. pkt., 35c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75; 4 oz., \$6.00.

*Ipomoea "Pearly Gates"**Ball Dwarf Giant No. 1*

We have a supply of select stock of this ever valuable variety. Better order timely. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.00; 4 oz., \$14.00.

SALVIA America

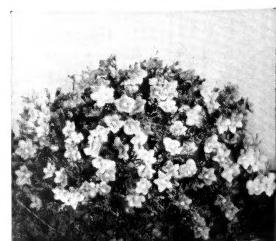
If you can use long stemmed white flowers in July this well known long stemmed Feverfew will produce them by sowing in January. Semi-hardy with us: Should be entirely so further south. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75.

BALL Matricaria

Greatly improves the original Hippomanica in retaining its rich blue color under summer conditions. Uniformly dwarf in habit. Nothing nicer for edging. Tr. pkt., 50c; $\frac{1}{2}$ oz., \$1.65; $\frac{1}{16}$ oz., \$3.00.

OBCONICA**PRIMULA****Fasbender's Red**

This is the largest flowering rich red Obconica. Grown and selected entirely by us. Tho we harvested a fair supply last season we advise ordering early. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.25; $\frac{1}{2}$ oz., \$4.25.

*Nierembergia "Purple Robe"*

PETUNIAS

Our Great Specialty

(200,000 seeds per ounce)

For both bedding and pot plants, the call for well-grown petunias becomes stronger annually. This is due not only to their attractive, free-flowering habit but also to their substantial annual improvement. The important points in growing good plants, whether the bedding kind in flats or All-Doubles in pots is—start early, grow cool near the glass, don't overcrowd, and after they get well into growth, gradually harden the growth by letting them get quite dry between waterings.

The All-Doubles

We continue to have seed of all the following varieties, and every one is germinating well. **This fact, together with its excessive cost to us, makes it unfair to ask us to accept responsibility for non-germination of All-Doubles.** With uniform moisture and a temperature of 65-70°, germination of at least 60% should be had on all varieties.

***Brilliancy.** A rich deep carmine rose with fully 70 to 75% completely double flowers. An improvement over Pink Perfection in its more uniformly dwarf and compact growth. Admirably suited for spring pot plant work.

***Attraction.** A fine companion variety for Brilliancy, which it closely resembles in dwarfness of growth. Flowers about 75% fully double, beautifully blottedch deep carmine rose and white. Makes an ideal and strikingly attractive pot plant.

***Pink Perfection (World Beauty)** Though not quite as dwarf in growth as the above varieties it is well-suited for pot plant use when grown close to the glass. Its greater vigor and bright rose pink coloring make it an excellent outdoor bedding variety, 65 to 70% large, fully double flowers.

***Blue Brocade.** A rich velvety Elk's Pride purple belonging to the extra dwarf and compact class of All-Doubles. Because it is considerably later flowering than most others, some allowance in sowing time should be made. About 60% fully double and fine for pots.

***Gaiety.** Very attractive deep rose and white blottedch. Dwarf habit and about 60% double, balance semi-double.

Appleblossom. A clear light pink. Choice where this color can be used.

Loveliness. Shade lighter than Pink Perfection with some variation.

Orchid Beauty. A medium lilac with darker veins. Best used for bedding.

Amaranth Red. A deep magenta red. Useful in limited plantings.

PRICES. Because of the shortage of seed, we are able to offer only half-packets (containing approximately 400 seeds) and full trade packets (containing approximately 800 seeds) of all the above separate color varieties priced at $\frac{1}{2}$ Tr. pkt., \$1.50; Tr. pkt., \$2.50.



Above is the finest bed of double petunias we have ever seen—All-Double Pink Perfection. This class is ideal for pot plants, bedding or summer cutting.

New American All-Double

All Double America (All America Silver Medal 1943). The first all double Petunia produced in America. Medium sized carnation-flowered blooms of a pleasing mauve-pink color reminding one of the famous Gladiolus of that name. Flowers are borne very freely from early summer until frost. $\frac{1}{2}$ tr. pkt., \$1.25; tr. pkt., \$2.50.

Victorious Mixed

A complete and bright mixture of colors in the All-Double class. Fine for bedding and a ready seller.

PRICE. We have an ample supply of seed of this regular mixture priced as follows: $\frac{1}{2}$ tr. pkt. (containing approxi-

mately 500 seeds) \$1.50; Tr. pkt., (containing approximately 1,000 seeds) \$2.50; $\frac{1}{64}$ oz., \$9.50; $\frac{1}{32}$ oz., \$18.00.

The California Giants

The real Giants attract attention and sell. This applies particularly to the dwarf strains in 3 and 4 in. pots. In flower they sell on sight. Our Ball Dwarf Giant No. 1 is in a class by itself for this purpose. Because of their stronger growth, the taller strains are better adapted to outdoor work.

***BALL DWARF GIANT NO. 1.** We consider this uniformly dwarf strain fully equal if not superior to the finest pre-war European importations. Dependably produces 85 to 90% extra large, open-throated flowers predominating in rich dark shades, with just enough lighter pink, rose, and lavender shades to lend harmony to the mixture. Unexcelled for spring pot work. We have ample seed supplies. $\frac{1}{2}$ Tr. pkt., 75c; Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50; $\frac{1}{16}$ oz., \$8.00.

***Ball Dwarf Giant No. 2.** Ramona strain. Produces around 65% large California Giant Flowers in a wide range of choice colors. Being of a more vigorous growth than our No. 1 strain, they are better suited for use where plants are to

be sold for outdoor bedding work. For flat sales, sow $2\frac{1}{2}$ to 3 months before selling season and grow close to the glass. $\frac{1}{2}$ Tr. pkt., 60c; Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.00; $\frac{1}{16}$ oz., \$5.50.



Showing our White Queen Petunia as a pot plant specimen.
Notice its compact growth and free flowering.

The California Giants—Continued

California Giants Mixture No. 5. A very complete and attractive mixture of colors in the tall Giant class. Free flowering and fine for outdoor bedding. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.35; $\frac{1}{32}$ oz., \$2.50.

Dwarf Giants No. 6, Eriksson Strain. A well-known Chicago pot plant specialist's own growing. Tr. pkt., \$1.25; $\frac{1}{64}$ oz., \$2.75; $\frac{1}{32}$ oz., \$5.00.

California Giants—Supreme Florists' Strain. Fine bedding mixture of soft shades of pink, rose, and salmon. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.75; $\frac{1}{16}$ oz., \$5.00.

Separate Color Varieties

***GLAMOUR.** All-America Honorable Mention 1942. A strikingly beautiful rich salmon rose—shading lighter toward the brown-veined open throat. Around 65% true to its large wavy flowers that are very freely produced on vigorous-growing plants. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.75.

***Copper Red, Dark.** Attractive deep coppery crimson.

***German Empress.** Striking bluish white with dark purple veined throat.

Prince of Wuerttemberg. Deep magenta rose with darker throat.

Princess of Wuerttemberg. Light rose pink; veined dark throat.

Rheingold. Large clear white with yellow throat.

Robin Hood. Deep magenta crimson; throat almost black.

***Salmon Beauty (Marilyn).** Bright pastel salmon pink, unusually attractive.

Silvery Rose. Silvery rose pink with lighter throat.

PRICES on all above separate color giant varieties: Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.35; $\frac{1}{32}$ oz., \$2.50.

The Grandifloras

Medium to large flowers, beautifully fringed, and compact growth gives this class outstanding value for pot

plant purposes as well as bedding. The Grandifloras are divided into three classes: (1) The ruffled grandifloras; (2) the extra dwarf fringed known as Dwarf Erfurts and (3) the regular fringed class.

RUFFLED GRANDIFLORAS

Of greater size and more vigorous growth than other Grandiflora varieties. For this reason the Ruffled Grandifloras are especially well suited to bedding as well as pot plants.

*Elk's Pride Dwarf.

An extra uniform strain of this ever-popular rich velvety purple variety. Being somewhat more dwarf in growth than the original tall strain, it is admirably suited for outdoor bedding or porch boxes. You will find a ready sale for this fine Petunia. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25; $\frac{1}{32}$ oz., \$2.00; $\frac{1}{16}$ oz., \$3.75.

*White Queen.

The finest all-around white variety we know of. Its distinctly dwarf and compact growth together with its freely produced, large wavy, pure white flowers adapt it well for pot plant use. Equally well fitted for outdoor bedding, we can't recommend White Queen too highly to any florist who has a trade calling for a larger flowered and finer white Petunia than the smaller flowered Dwarf Hybrida white varieties. Blooms continuously, even under trying weather conditions. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.00; $\frac{1}{16}$ oz., \$5.25.

*Snowstorm.

One of our finest large flowered, compact growing all purpose white Petunias. Very similar to White Queen. Tr. pkt., 75c; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.00; $\frac{1}{16}$ oz., \$5.25.

*White Cloud.

Resembles the two above white varieties in general habit but is not quite as large flowered. Very free flowering and widely used for both pot plants and bedding. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.75; $\frac{1}{16}$ oz., \$3.25.

*Ruffled Velvet.

Large ruffled mahogany or "Black Prince" red flowers and fairly compact growth make this an attractive variety. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.75.

Burgundy. Dark Burgundy wine red with large white throat. Well ruffled. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.75.

Dwarf Pink Glory. Glowing carmine rose with white throat. About 60% true large flowered. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25; $\frac{1}{32}$ oz., \$2.00.

Giant Steel Blue. Light bluish white with dark veins. Varies considerably. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.75.

***Ruffled Grandiflora Mixture.** Our own formula mixture of the finest varieties in the Ruffled class. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.75; $\frac{1}{16}$ oz., \$3.00.

FRINGED GRANDIFLORA PETUNIAS

The Dwarf Erfurts

An extra dwarf uniform, fringed group of Grandifloras. Of outstanding value for pot plant use and under favorable soil and moisture conditions, they are choice for bedding.

***Setting Sun.** Heavily fringed, beautiful deep rose. One of the finest in the Dwarf Erfurt class and excellent for pot plant work. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.75.

***Lace Veil.** Might be called a white Setting Sun, being practically identical to that variety except for its clear white flowers. Another first class pot plant variety. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.75.

Ball Silver Lilac. A clear light lilac that is at its best under spring greenhouse conditions. Of fine Dwarf Erfurt habit. Tr. pkts. only; \$1.00 each.

Colorado Sunset. A choice dwarf variety in shades of pink and rose. Averages some lighter than Setting Sun. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.00.

Gaiety. Attractive, irregular rose pink and white markings. Dwarf and compact. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.75.

Gottfried Michaelis. Rich amaranth red. Rather heavy color and should be used moderately. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.35; $\frac{1}{32}$ oz., \$2.50.

***Dwarf Erfurt Mixture.** A formula mixture of above varieties consisting mostly of Lace Veil and Setting Sun with smaller amounts of all other varieties. We make up this mixture ourselves. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.75.



Petunia Grandiflora Fringed Lace Veil. An extra dwarf free-flowering fringed pure white.

Regular Fringed Grandifloras

Medium to large fringed flowers, freely produced and semi-dwarf bushy growth make this a valuable class for pot plants and for bedding.

***Columbia.** Distinct in growth from any other Petunia, being upright or hedge-like in habit. Out-doors it will attain a uniform height of 24 to 30 inches and should be supported to avoid toppling in wind. Florists who do a bedding plant business should find a ready sale for this variety as a background plant against walls and fences. Freely produces beautifully marked deep rose and white flowers. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.65; $\frac{1}{32}$ oz., \$3.00.

***Theodosia Improved.** (Josephine) Exceptionally large and heavily fringed flowers which improve the original stock in depth of color that is a brilliant rich rose with contrasting golden yellow throat. Of outstandingly vigorous growth that makes it unexcelled for bedding. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.35; $\frac{1}{32}$ oz., \$2.50.

Dainty Lady. A light cream. The nearest approach to a yellow petunia. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.75.

***Golden Jubilee.** Extra heavily fringed, bright carmine rose with golden throat. Uniformly dwarf and excellent for pot plants but a little too weak for bedding where summers are long and hot. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.65; $\frac{1}{32}$ oz., \$3.00.

Miranda. Beautifully frilled deep carmine scarlet with darker veined throat. Dwarf habit. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.50.

Pink Triumph. One of the best clear rose pinks, golden throated. Fine for bedding. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.85.

Pride of Portland. A shade lighter than Pink Triumph with a white throat and somewhat more dwarf. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.85.

Rapture. Pleasing rose pink shaded carmine toward center with yellow throat. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.25.

Romany Lass. Heavily fringed deep crimson; darker throat. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.35.

***Royal Purple.** The popular velvety Elk's Pride purple color with attractively fringed petals. A fine variety. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.50; $\frac{1}{32}$ oz., \$2.75.

White Beauty. Finely fringed clear white with strong growth that makes it first class for bedding. Tr. pkt., 50c; $\frac{1}{64}$ oz., \$1.00; $\frac{1}{32}$ oz., \$1.85.

Fluffy Ruffles. Bright colors and a strong growth make this attractive fringed mixture suitable for bedding work. Considerable variation from its true fringed type. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.50; $\frac{1}{8}$ oz., \$4.75.

Ball Single Fringed Mixture. Strong growing and extra free and early flowering for mass effects. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.50; $\frac{1}{16}$ oz., \$2.75; $\frac{1}{4}$ oz., \$8.00.

***Formula Mixture.** A high class mixture made up of the best named varieties in the Fringed class. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.65; $\frac{1}{16}$ oz., \$3.00.

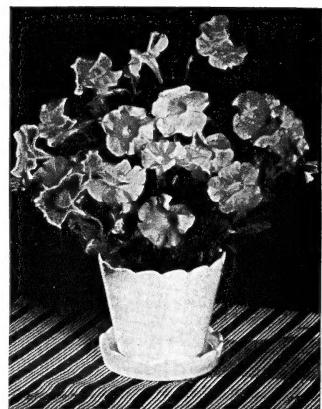
DWARF HYBRIDA PETUNIAS

The most popular selling class for bedding, being strong enough in growth to show up well under most summer conditions. Because of their dwarf habit, they are sometimes listed as Nana Compacta. This class is used almost exclusively by growers of Petunias in flats, their dwarf habit making them ideal for this purpose. Celestial Rose Imp. is the heaviest selling variety with us.

TWO "ALL-STARS" FOR '43

Igloo. (All America Bronze Medal Winner for 1943) Medium sized pure white flowers with faint yellowing in the throat, very freely produced all summer on uniformly dwarf compact plants are outstanding points about this fine new Petunia. Makes a perfectly rounded mound of white reminding one of an Eskimo "igloo", and is ideally suited for borders or pot plants. Tr. pkt., 75c; $\frac{1}{32}$ oz., \$1.50; $\frac{1}{16}$ oz., \$2.75; $\frac{1}{8}$ oz., \$5.00.

English Violet. (All America Honorable Mention for 1943) A new and very pleasing shade of rosy mauve-violet that is distinctly different from any of the other mid-blue varieties. Almost the same beautiful color as English Violets. Of the vigorous "Celestial Rose" type of dwarf growth which makes it an excellent bedding variety. True to color and uniform dwarf habit. Tr. pkt., 50c; $\frac{1}{32}$ oz., 90c; $\frac{1}{16}$ oz., \$1.65; $\frac{1}{8}$ oz., \$3.00.



Its brilliant deep carmine rose color has made Glow an outstanding bedding Petunia.

BALL TEN-BEST VARIETIES

Three-fourths of our demand for Dwarf Hybrida Petunias is concentrated in this list. Here you will find the finest varieties in every color class.

***Celestial Rose Improved.** A deeper rose coloring and slightly larger flowers than the original Celestial Rose, together with a more uniformly dwarf and compact habit of growth make our strain unexcelled for pot plant work. Practically 100% true to type and color. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$9.00; 4 oz., \$30.00.

***Celestial Rose.** The most popular Petunia for bedding plants. A rich deep rose with an ideal bushy habit; fine for pot plants too. Tr. pkt., 35c; $\frac{1}{8}$ oz., 75c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.50; 4 oz., \$15.00.

***Fair Lady.** A fine large flowered clear silvery pink—a pastel shade that is lighter and softer in tone than Celestial Rose. Because of its somewhat upright but compact growth it is ideally suited for pot plant use. A fine color under spring greenhouse conditions and holds up well under outdoor sun. Vigorous enough in growth to make a good bedding plant also. Tr. pkt., 35c; $\frac{1}{16}$ oz., \$1.25; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.75; 1 oz., \$13.50.

***King Henry.** The popular Black Prince color—a deep velvety crimson—combined with an extra dwarf and compact growth make this a fine variety for spring pot plants. Almost too dwarf for outside use, for which we recommend Velvet Ball. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.25; $\frac{1}{16}$ oz., \$2.35; $\frac{1}{8}$ oz., \$4.25; $\frac{1}{4}$ oz., \$8.00; 1 oz., \$25.00.

***Velvet Ball.** Almost identical to the above variety in color and a fine free flowering first class bedding Petunia. Not as tall as Black Prince in this color class but more spreading than King Henry. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.35; $\frac{1}{16}$ oz., \$2.50; $\frac{1}{8}$ oz., \$4.50; $\frac{1}{4}$ oz., \$8.25; 1 oz., \$28.00.

***Admiral.** Our finest blue Petunia. Large attractively ruffled medium blue flowers with slight violet shading—the clearest blue we know of in petunias. Fine dwarf habit well suited either for pots or bedding. Practically 100% true to color and about 80% large flowered. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.50; $\frac{1}{16}$ oz., \$2.75; $\frac{1}{8}$ oz., \$5.00; $\frac{1}{4}$ oz., \$9.00; 1 oz., \$30.00.

***Topaz Queen.** A glowing carmine rose with distinct orange scarlet overtones; a rich warm color. Particularly large flowered for this class and while not quite as dwarf as Celestial Rose, is well adapted for pot plant use as well as bedding. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$6.00.

***Glow.** A flashing carmine scarlet similar in color to Topaz Queen but habit not sufficiently compact for first class pot plant work. Good for bedding where it makes a brilliant display. Tr. pkt., 35c; $\frac{1}{16}$ oz., \$1.25; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.75; 1 oz., \$13.50.

***Heavenly Blue.** Continues as the best in the medium to light silvery blue color class. Free flowering and similar in growth to Celestial Rose. A fine companion for that variety. Tr. pkt., 35c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

***Snow Queen.** Our finest pure white dwarf bedding Petunia. Altho taller growing than some of the above extra dwarf varieties, its compact habit fits quite well into pot plant work. At its best outdoors where its free flowering and strong growth make it an excellent bedding variety. Tr. pkt., 25c; $\frac{1}{8}$ oz., 60c; 1 oz., \$2.00.

***Ten Best Formula Mixture.** Hand mixed by ourselves, of the ten best varieties in proportion to the demand for the various colors. Fine for spring flat sales. Tr. pkt., 35c; $\frac{1}{16}$ oz., 90c; $\frac{1}{8}$ oz., \$1.65; $\frac{1}{4}$ oz., \$3.00; 1 oz., \$10.00.

DWARF HYBRIDA PETUNIAS—Continued

Other Dwarf Hybrids

Alderman. Medium violet-blue. Medium dwarf; a fine bedding variety. Tr. pkt., 25c; $\frac{1}{4}$ oz., 70c; 1 oz., \$2.50.

Blue Bedder. Color perhaps some lighter than that above, but very similar. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.25.

***Blue Bird.** Another medium violet-blue. A good bedding variety. Tr. pkt., 25c; $\frac{1}{4}$ oz., 70c; 1 oz., \$2.50.

Brilliant Rose Gem. Well-rounded, extra compact growth. Deep rose. Too weak for our mid-western summers, but fine for pots. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00.

Cream Star. Bluntly star shaped creamy white. Practically 100% true to its very compact habit and color. Free flowering. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.15; $\frac{1}{4}$ oz., \$2.00.

***Norma.** A lavender-purple with white star in each flower. Habit quite dwarf and compact for either pots or outdoor bedding. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.75.

***Rose of Heaven.** A well known standard rose pink for bedding. Differs from Celestial Rose primarily in being not quite so uniform in growth and color. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

Rose Queen Imp. Very similar to above. Uniformly compact deep rose. Tr. pkt., 50c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

Rosy Morn. Standard rose pink with large white throat. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.75.

***Salmon Supreme.** An attractive salmon rose shade—a color that combines well with the pastel shade of Heavenly Blue. Habit uniformly dwarf and compact; quite free flowering and showy outdoors. Practically 100% true to color and habit. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.35; $\frac{1}{8}$ oz., \$2.50; $\frac{1}{4}$ oz., \$4.75.

Sunrise. Compact spreading type of growth with medium rose lightly fringed flowers. Tr. pkt., 75c; $\frac{1}{16}$ oz., \$1.50.

***Twinkles.** Medium rose pink with white star in each flower. A very attractive color combination. Growth very dwarf and compact; good for either pots or outdoor bedding. Approximately 80% true. Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

***White Perfection.** A very excellent dwarf and compact pure white. A little restricted in growth for our severe mid-Western summers but fine for pots. Practically 100% true. Tr. pkt., 35c; $\frac{1}{8}$ oz., 70c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.50.

Violacea. Fairly dwarf deep purple. Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

Violet Blue. Altho not quite strong enough for our mid-Western summers outdoors, Violet Blue is a fine pot plant variety. Good dwarf and compact growth. Color a deep violet-purple. Tr. pkt., 35c; $\frac{1}{4}$ oz., 70c; $\frac{1}{4}$ oz., \$1.30; 1 oz., \$4.75.

Violet Gem. Belongs to the extra dwarf, compact and restricted growing gem class that is too weak for outdoor work where summer temperatures reach the 90's and 100's. Make very excellent pot plants, however. Color a deep violet-purple. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.85.

***Dwarf Hybrida Formula Mixture.** A formula mixture made up from the above varieties. An attractive and complete blend of salable colors. Tr. pkt., 25c; $\frac{1}{4}$ oz., 70c; 1 oz., \$2.50.

Dwarf Hybrida Ruffled Type

Betsy Ross. Of an extra dwarf habit, plants outdoors reaching a height of 6 to 8 in. and for this reason, doesn't flower much under our outdoor conditions. Color a deep crimson red with irregular white markings and dark red and gold throats. Flowers attractively ruffled and about 2 $\frac{1}{2}$ inches across. A fine pot plant variety. Tr. pkt., 75c; $\frac{1}{2}$ oz., \$1.65; $\frac{1}{16}$ oz., \$3.00.

General Washington. Same as above, but color a deep amaranth red with darker throat. Tr. pkt., 75c; $\frac{1}{2}$ oz., \$1.65; $\frac{1}{16}$ oz., \$3.00.

Martha Washington. Same as Betsy Ross except in color which is a blush pink with attractively veined throat. Tr. pkt., 50c; $\frac{1}{2}$ oz., \$1.15; $\frac{1}{16}$ oz., \$2.00; $\frac{1}{8}$ oz., \$3.75.

Regular or Tall Hybrids

This class is of vigorous growth and for this reason is best suited to outdoor bedding where summers are most trying. While they aren't dwarf, the tendency of the growth to fall over leaves them with as much dwarf effect as is had with some of the varieties listed under the Dwarf Hybrida type.

General Dodds. An amaranth or deep rose. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

***Howards Star Imp.** Medium tall velvety crimson with large white star in each flower. Our strain comes quite true to the starred type. Tr. pkt., 35c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.25.

Lord Courtenay. (Golden Rose) Deep rose with golden throat. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.25.

Radiance. Brilliant deep scarlet or carmine rose. About same color as Topaz Queen. Tr. pkt., 35c; $\frac{1}{8}$ oz., 80c; $\frac{1}{4}$ oz., \$1.50.

Topaz Rose. Very similar to above in color and growth. Tr. pkt., 25c; $\frac{1}{4}$ oz., 70c; 1 oz., \$2.50.

White. A clear white in the tall growing class. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

Exquisite Mixture. Formula mixture; finer large-flowered varieties predominating. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.25.

The Balconies

Because of their extra vigorous habit and fairly large flowers, this class is used to advantage for bedding where conditions are trying. Their tall habit is not particularly objectionable because of their tendency to sprawl or lay over as growth progresses. Also, because of this tendency, the Balconies are much used in baskets or porch boxes.

***Black Prince.** Rich velvety crimson-red with true Balcony habit. Comes practically 100% true to color. The finest variety where this color can be used. Tr. pkt., 35c; $\frac{1}{16}$ oz., 60c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.85; 1 oz., \$6.75.

Venosa. Lilac rose with dark throat. Fairly dwarf habit. Effective for bedding when this color is wanted. Tr. pkt., 35c; $\frac{1}{8}$ oz., 70c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.50.

***Blue.** A medium violet-blue. Tr. pkt., 35c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.65.

Cornflower Blue. A medium violet blue with typical Balcony habit. Tr. pkt., 35c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.65.

White Crimson Rose Mixture

PRICES on each above four varieties; Tr. pkt., 35c; $\frac{1}{8}$ oz., 75c; $\frac{1}{4}$ oz., \$1.35; 1 oz., \$4.75.

Diener's Varieties

We supply originator's packets only on the following varieties:

No. 2—Ruffled Monster Flesh-Pink. Deep center. Tr. pkt., 50c.

No. 5—Ruffled Monster Red. Tr. pkt., 75c.

No. 8—Ruffled Monsters Mixed. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$2.50.

No. 11—Blue. Semi-dwarf violet blue. Tr. pkt., 25c; $\frac{1}{16}$ oz., \$1.50.

No. 19—Giant Pink Glory. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$2.50.

No. 22—Rose Color. Tr. pkt., 25c.

No. 47—Jumbo Mixture. A mixture of Giant types. Tr. pkt., \$1.00.

ASTERS BALL TWELVE BEST

All our aster seed is grown for us under the ideal climatic conditions of California where strong sun and absence of rain through the growing season insure perfectly matured seed.



COMMERCIAL ASTERS

The past two seasons we have demonstrated conclusively that Asters are grown more successfully and more nearly free from rot by sowing the seed direct. This is due to no transplanting check and avoiding the overcrowding that encourages the beginning of rot. In fairly enriched soil, with water when needed, our Royals sown out May 12 were long enuf stemmed for market purposes. While we do not recommend direct sowing unless growing conditions, water, and soil, are favorable; we do feel certain that sowing too thick and too early are responsible for much stem rot later. Our standard practice is to sow in sterilized soil a month before they can be transplanted to flowering beds.

THE BALL TWELVE BEST

(12,000 Seeds per oz.)

- ***Ball Deep Rose.** Extra long stemmed, large, incurved, bright, deep, rose. This strain has been reselected for more fully double flowers. Continues to be the most popular variety on our list, being well adapted for shipping and handling. August 25 to Sept. 5.
- ***Ball White Early.** Our own reselected strain of this fine variety. Flowers fully double, very few showing centers even when completely open. One of the most resistant, excellent commercial, blooming Sept. 5 to 10.
- ***Ball Deep Purple.** Identical in all respects with our Ball Deep Rose except in color which is a bright deep purple. A better market variety than Royal Purple, brighter flowers and longer stems. Aug. 25 to Sept. 5.
- ***Ball White Late.** Long stemmed and large full petalled flowers, closely following our Ball White Early in flowering season. Sept. 10 to 15. Typically American Branching in flower type and habit. Probably the best mid-season white variety.
- ***Royal Shell Pink.** Extra large incurved flowers borne on strong stems of medium length. A clear shade of pastel or shell pink closely resembling the old favorite Semple Pink. Not quite as resistant as some types but an excellent variety. Sept. 1 to 5.
- ***Royal Azure Blue.** An excellent clear light or azure blue that is one of the most used and saleable colors. A fine commercial cut-flower variety. Sept. 5 to 10.
- ***Early Giant Light Blue.** Extra large, early flowering and full petalled flowers of the shaggy California Giant type. A very attractive, clear azure or light blue with strong, medium length stems. A fine large-flowered variety for localities with early frost dates. Sept. 15 to 20. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.75; 4 oz., \$9.50.
- ***Early Giant Rose Marie.** An exceptionally choice large-flowered bright, deep rose. Of the same shaggy flowered, early California Giant type as Light Blue described above, and is equally as useful for early frost localities. We recommend Rose Marie highly where this type can be used. Sept. 15 to 20. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50; 4 oz., \$12.00.
- ***Branching Azure Blue.** Same color as Royal Azure Blue. Its typical American Branching habit makes it ideal to follow that variety, being a week or two later in flowering. Sept. 15 to 20.
- ***Beauty Silvery Rose.** An excellent large-flowered light rose or phlox pink, deepening as the flower matures. A commercially valuable early Beauty type—long stemmed and a strong grower. Sept. 20 to 25.
- ***Heart of France.** Distinctive scarlet-crimson color with fully double medium sized flowers. Similar to American Branching in type, and the only worth-while "red" Aster for commercial cut-flowers. Sept. 10 to 15.
- ***Aurora Golden Sheaf.** Large, fully double anemone type flowers with outer petals a creamy white, shading toward a deeper, yellow cushion. Firm flower texture that stands rough handling and shipping, makes this an increasingly popular commercial type. Sept. 15 to 20.
- ***12 Best Mixture.** Our own high class formula mixture made up by ourselves of the above varieties in proportion to their commercial value. Choice and well balanced.

PRICES on all the above "12 Best" Rot-resistant Aster varieties except the two Early Giant varieties, Rose Marie and Light Blue, are as follows: Tr. pkt., 30c; $\frac{1}{4}$ oz., 60c; 1 oz., \$1.85; 4 oz., \$6.50.

SPECIAL OFFER. For growers who are interested in trying all the 12 Best varieties separately rather than in mixture, we offer a collection consisting of a tr. pkt. of each for \$3.40.

BALL WILT-RESISTANT ASTERS

PRICES on all following varieties except as otherwise noted: Tr. Pkt., 30c; $\frac{1}{4}$ oz., 60c; 1 oz., \$1.85; 4 oz., \$6.50.

ANEMONE OR CRESTED. These types have crested or cushioned anemone centers, forming fairly hard flowers suited for shipping. Our trials show most of them to be rather uncertain in wilt-resistance. Sept. 5 to 10.

***Princess Marsha.** Deep rose shading to crimson.

***Princess Anne.** (New) Light rose-pink with cream cushion.

Princess Bonnie. (New) Silvery-rose with golden center deepening as flower matures.

***Giant Harmony Moonlight.** Medium lavender with lighter cushion; fairly resistant.

Giant Harmony Morning Mist. (New) Attractive medium purple, good stem length.

***Giant Harmony Sunrise.** (New) Soft apricot pink with creamy cushion. Long stemmed and highly resistant.

Giant Harmony Mixture. Unusual and attractive mixture of colors in this crested-center type.

QUEEN OF THE MARKET. The finest and most popular class for flowering during early August, but rather short-stemmed and small flowered as compared to the later varieties.

***Azure Blue.** A fine early variety in this popular color.

***Deep Rose.** Of the popular Ball Deep Rose color.

***White.** A fine clear white for early flowering.

Dark Blue. Rather deep rich shade of purple.

Flesh Pink. Shell pink; deepening as it matures.

Mid Blue. Between the popular Azure and Dark Blue.

ROYAL. This popular class follows Queen of the Market in time of flowering. Some of the finest varieties will be found among our 12 Best, Aug. 25 to Sept. 5.

***Ball Phlox Pink.** A fine long-stemmed, light rose-pink, deepening as flowers mature. Typical Royal habit.

Purple. Bright purple; prefer Ball Deep Purple.

White. A good white, but Ball White Early is preferred.

KING OR NEEDLE TYPE. Flowers are large and full with strong quilled or needle-like petals that make them popular with those who grow for long distance shipping. Mid-Sept.

***King Rose.** (Special florist strain.) Fine deep rose.

King Peachblossom. Light or shell pink.

King Violet. A rich and striking color.

King Crimson. Deep crimson.

King White. Popular commercial color.

AMERICAN BRANCHING. The popular mid-season spreading or branching type. Sept. 10 to 20. Fine stem length and flower size make this one of the most valuable types for commercial growers.

***Deep Rose.** Long stems and fine large flowers.

***Purple.** Rich violet-purple. Long stemmed.

***Rosalie.** A fine completely double flower and rich rose color make this variety outstanding.

Semple Pink. Standard shell pink variety.

***White.** Excellent cut-flower white; true branching type.

AMERICAN BEAUTY. The popular late blooming, long stemmed type with large incurved flowers. Most varieties flower end of Sept., so early frost dates should be noted.

***Azure Fairy.** A fine long-stemmed and large flowered fairly deep azure blue.

Crimson. Color similar to Heart of France.

Deep Rose. A fine late deep rose.

***Purple Prince.** A fine marine purple in this late class.

Purple. Long-stemmed.

Shell Pink. (September Beauty) Delicate light pink.

***White.** Long-stemmed white; excellent.

SHAGGY TYPES. All these classes have attractively interlaced petals producing a fluffy effect. They include the Comets, Gregos, Ostrich Feathers, and Early Giants.

Early Giant Peach Blossom. Same as Early Giant Light Blue in 12 Best list, but a pleasing light pink. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.75.

Comet Giant Dark Purple. Highly resistant rich purple. Sept. 25 to Oct. 1. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.75.

Comet Cattleya. Pleasing orchid-lavender. Early Sept.

Comet Light Blue. Choice azure-blue for cut flowers. Early Sept.

Comet Rose. Attractive deep rose. Early Sept.

Comet White. Early September flowering.

***Crego Azure Blue.** Fine light blue; large flowers and long stems. Sept. 10 to 15.

***Crego Blue Flame.** Resistant, deep bright blue. Sept. 5 to 10.

***Crego Deep Rose.** Fine large-flowered variety. Sept. 10 to 15.

***Crego Orchid.** Attractive orchid lavender. Sept. 5 to 10.

Crego Peach Blossom. Light rose deepening as flowers open. Sept. 10 to 15.

Crego Shell Pink. Light clear pink. Sept. 10 to 15.

***Crego White.** Excellent pure white. Sept. 5 to 10.

Ostrich Feather Peach Blossom. Similar to Cregos in type. Light rose deepening as flower opens. Sept. 10 to 15.

SINGLE VARIETIES. Our own highly resistant, long-stemmed cut-flower type. Entirely single flowers 2 to 4 in. across, each with a yellow center. Easily grown and very productive. Mid-Sept.

***Deep Rose.** Excellent deep rose pink.

***Violet.** Choice fairly deep violet purple.

***Light Blue.** Azure or light lavender blue.

***Single Varieties Mixed.** Of the above and other useful colors.

PRICES on above four single Aster strains: Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.75; 4 oz., \$9.50.

STANDARD RESISTANT MIXTURES

Queen of the Market Mixture. Crego Mixture. American Branching Mixture. Royal Mixture. American Beauty Mixture. King Type Mixture.

All Double Varieties Mixed. Covers a wide range of types and colors for growers who sell large quantities of mixed Aster plants. No singles.

PRICES on all above mixtures: Tr. pkt., 30c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75; 4 oz., \$6.00.

Non-Resistant Varieties

CALIFORNIA GIANTS. (Not wilt-resistant) Large fully double "shaggy petalled" flowers. Long stemmed. Late Sept.

	Tr. pkt.	$\frac{1}{4}$ oz.	1 oz.
* Deep Rose	\$0.35	\$0.75	\$2.50
Peach Blossom	.35	.75	2.50
* White	.35	.75	2.50
Mixed	.30	.60	2.25

GIANT CALIFORNIA SUNSHINE (not wilt-resistant) Large flowered anemone type with long ray petals and small cushions. Not for shipping.

Tr. pkt.	$\frac{1}{4}$ oz.	1 oz.
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* Lavender	\$0.35	\$0.90	\$3.25
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White	.35	.90	3.25
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Mixed of the above and other choice colors	.30	.75	2.50
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Super Giant El Monte. Extra large, deep crimson rose.			
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Super Giant Los Angeles. Same as above, but a soft shell pink.			
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PRICE on each above two: Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.			
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FLORISTS' ZINNIAS

**EVERY RETAIL GROWER CAN
MAKE PROFIT FROM ZINNIAS**



Giant Dahlia-Flowered Zinnia

If sheltered from the trying out-door conditions of summer, Zinnias are grown into attractive cutting material, particularly the Pompons or Lilliputs. Either a cloth or greenhouse can produce flowers that no outdoor stock will compete with. Such protection produces longer stems and larger flowers. While they are easily grown on by sowing in the open as soon as the soil becomes well warmed, many gardeners will buy well started plants that are as easily produced under glass as any plants can be. Also in our latitude if sown outdoors as late as mid-July, they will flower freely before frost. Zinnias are warm temperature plants. If the seed is sown in cold, wet soil, it will rot.

The development of Zinnias from the small, high-centered singles of 50 years back to the beautiful forms and colors of today has been a real miracle. To maintain the trueness to color of today's stock requires much careful work. Most seed growers do this work well. Thru our annual trials of ALL varieties and personal inspection of seed fields, we are able to offer "All the Best—Nothing Else" in florists' Zinnias.

DAHLIA-FLOWERED CLASS

(2500 seeds per ounce)

A somewhat heavier and more compact petal arrangement much resembling the show type of Dahlia makes this the generally preferred class in the large flowered group. A valuable cut flower because of its long stems and complete color range.

***Canary Bird.** A bright, clear canary yellow.

***Crimson Monarch.** Large flowered deep crimson red. The deepest red in this class.

***Dream.** An attractive and useful medium orchid lavender.

Eldorado. Salmon-apricot shades with some color variation.

***Exquisite.** Fine medium rose pink with deeper center. Choice for cut-flower use.

***Golden Dawn.** Clear golden yellow. A good variety.

***Golden State.** A rich orange-yellow. Considerably deeper than Golden Dawn.

Illumination. A deep rose; several shades darker than Exquisite. A useful cut-flower variety.

Meteor. Rich deep amaranth red. A striking color.

Old Rose. Old or dusty rose overlaid with some copper-orange shading.

***Oriole.** Fine orange and gold bicolor. A first class cut flower variety.

Polar Bear. Large creamy white.

Purple Prince. Deep purple; large-flowered.

***Scarlet Flame.** The finest bright scarlet. Very showy, and attractive.

PRICES on all above varieties each: Tr. Pkt., 25c; $\frac{1}{4}$ oz., 40c; $\frac{1}{2}$ oz., 65c; 1 oz., \$1.10; 1 lb., \$13.50.

SPECIAL OFFER: We furnish a collection consisting of 1 tr. pkt. each of the above 14 varieties for \$2.75. We can also furnish a collection consisting of a tr. pkt. each of any 10 varieties (your choice) for \$2.00.

***GOLD MEDAL MIXTURE.** We believe this is the finest complete mixture of large flowered Zinnias available. This is not a field grown mixture but is carefully blended by formula from first class cut flower colors and varieties in direct proportion to their commercial value. Unexcelled, either for cutting or plant sales.

***INDIAN SUMMER MIXTURE.** An unusually attractive giant flowered mixture. Bright reds, yellows and oranges predominate to make up this fine assortment of "Indian Summer" colors.

Prices on Above Two Mixtures Only, Each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; $\frac{1}{2}$ oz., 65c; 1 oz., \$1.10; 1 lb., \$13.50.

Miscellaneous Zinnia Types and Varieties

GIANT MAMMOTH (California Giant)

Slightly taller than the Dahlia-flowered class with somewhat flatter and more loosely formed flowers. A fine cut flower type.

Brightness. Bright, clear rose pink.

Cherry Queen. (Cerise Queen) Brilliant orange-cerise or cherry-rose.

Daffodil Improved. Clear canary yellow. Fine for cutting.

Golden Queen. Bright golden yellow.

Grenadier. Fairly deep crimson red.

Lavender Queen. Medium rosy lavender.

***Miss Wilmott.** A very pleasing shade of soft pastel pink.

PRICES On Above Varieties and Mixture,

65c; 1 oz., \$1.10; 1 lb., \$12.00.

SPECIAL OFFER. We offer one trade packet each of the above 13 varieties for \$2.55.

LILLIPUT OR POMPON

(4300 seeds per ounce)

Uniformly symmetrical small rounded or pompon type flowers, freely produced on plants 12 to 18 in. high, adapt this class well to bedding use. Under glass or cloth they lengthen considerably making useful cut-flower material.

Black Ruby. Deep velvety maroon; somewhat dwarf than most Lilliput varieties.

Price on Black Ruby Only: Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.50.

***Canary Gem**

***Crimson Gem**

***Golden Gem**

***Lilac Gem.** Clear lavender.

Pink Gem

Purple Gem

Rosebud. Fine deep rose pink.

***Salmon Gem**

***Scarlet Gem**

Valencia. Attractive burnt-orange.

White Gem

Formula Mixture. Of above colors.

PRICES On all above Lilliput and mixture varieties, (except Black Ruby) EACH: Tr. pkt., 15c; $\frac{1}{4}$ oz., 35c; $\frac{1}{2}$ oz., 60c; 1 oz., \$1.00; 1 lb., \$10.00.

PUMILA TYPE

This class is midway between the Giants and Lilliputs in size. Nice for cutting or bedding.

Canary Yellow

***Salmon Rose**

Fire Ball

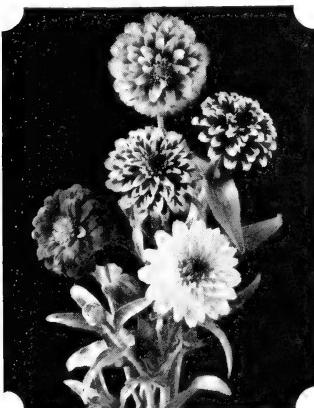
Golden Orange

Mixture of all colors in this class.

PRICES on above varieties and Mixture, EACH. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

FANTASY TYPE

Informally curled and interlaced petals produce a gracefulness lacking in most Zinnias. This combined with good flower size and fair stem length are making this class increasingly popular for cutting.



Zinnia Haageana

***Rosalie.** Bright intense rose. A good even color and long stemmed for cutting.

Orange Lady. A rich deep bright orange. Uniformly even stock.

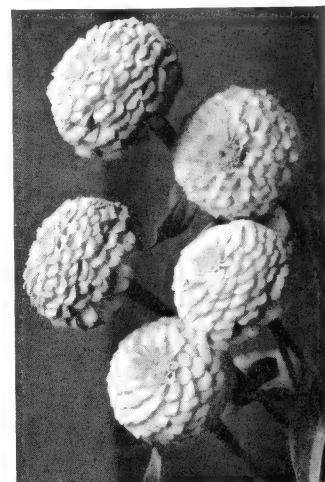
***Star Dust.** A bright deep golden yellow. Very attractive and useful.

***Wildfire.** Dazzling scarlet; a strikingly brilliant color. Usually uniform in habit and trueness to color.

Mixture. A complete and attractive formula mixture of all available colors in this class.

PRICES On above fantasy varieties and mixture, each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

SPECIAL OFFER. Tr. pkt. of each of the 11 Lilliput varieties for \$1.35.



Zinnia Lilliput

MISCELLANEOUS VARIETIES

Under this heading are grouped what we have found in our trials to be the best of the various odd-flowered and odd-colored types. Not all are equally true to type, but they do add interest and novelty to any planting, and growers of bedding plants should not overlook them.

Giant Crested. (Howard & Smith) Under California conditions this anemone type is at its best. We find it not suited to our mid-western conditions and recommend its use only in localities favorable for its proper development. Tr. pkt. 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Gracillima. (Red Riding Hood) Freely produces large numbers of small bright crimson flowers. Fine for bedding. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

Haageana Double Hybrids. Especially valuable for bedding. Extra compact and literally covered with small mahogany flowers charmingly variegated gold and orange. Quite novel and attractive. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Scabious-Flowered. Fairly tall with some cut-flower value. An Anemone-flowered type with crested center. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Gaillardia-Flowered or Navajo. Attractive two-tone combinations of rose, bronze, yellow and orange. Medium sized flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.

Cupid Mixture. Dwarf, extra small flowered type valuable for borders and rock gardens. Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.60.

Linearis. Compact (6 to 8 in.) early flowering with single bright orange flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Picotee Delight Mixture. This unusual type with curled petals and odd bicolor effects is fairly tall and useful for cutting. Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.50.

Pastel Tints. (Super Crown O'Gold) A mixture of two-tone pastel colors with base of each petal colored a buff or yellow shade. Quite large flowered and a good cut flower. Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.25.

MARIGOLDS

(10,000 Seeds per oz.)

No class of florist crops has been so rapidly bettered the past few years as have Marigolds. In their various forms and habits, they adapt themselves to cutting, pot plants, especially for combinations, and the Dwarf French type are showy for bedding. For any purpose their rich, warm coloring is ever appealing. Nearly all classes are readily flowered indoors in April—May from a January—February sowing—raised beds and Carnation house temperature. For those who object to their pungent odor, the varieties Gold and Crown of Gold are entirely odorless. Most popular of the Giant African strains for cutting is the "All-Double." In growing any Marigolds under glass they must not be checked especially thru over-watering or low temperature. When this happens, they come to a standstill forcing them into buds without sufficient growth.

BALL SIX BEST

Under most growing conditions the following six varieties constitute the very cream of the standard cut-flower sorts. With reasonably good culture we believe they represent the most profitable varieties to grow. But don't forget the value of novelties in keeping up your reputation for progressiveness.

All Double Orange. This belongs to the *Fistulosa* or large flowered, solid quilled-petal type. Produces 85 to 90% double flowers, being preferred to Prince of Orange on this account. An excellent, long-stemmed cut flower strain that finds considerable use planted close and grown single-stemmed for spring greenhouse flowering.

All Double Lemon. Identical to the above strain, but a clear lemon yellow.

All Double Mixture. A mixture of the two All Doubles listed above with some intermediate shades.

Guinea Gold. A carnation flowered deep golden orange, long-stemmed. Freely produces, loosely petalled flowers, 3 inches in diameter. Fine for cutting.

Yellow Supreme. A bright lemon yellow, carnation flowered type similar to Guinea Gold, but slightly shorter stemmed. Sufficiently long though for greenhouse cut flower work.

Cold Improved. Excellent for greenhouse forcing, being larger flowered and longer stemmed than the original strain. Odorless.

Six Best Mixture. Our own carefully compounded formula mixture of the above varieties balanced according to their commercial value.

PRICES on above six varieties & mixture, each: Tr. pkt., 25c; ½ oz., 50c; 1 oz., \$1.60; 4 oz., \$5.50.

WORTHWHILE NEW ONES!

MISSION GIANTS. A new and outstanding marigold type of exceptional merit. Under our outside conditions it produces almost perfect ball shaped, compactly formed, incurved chrysanthemum type blooms about 3 inches in diameter. Of excellent vigor and freely branching habit, we feel confident in offering the following varieties in this new type.

Goldsmith. All America Bronze Medal Winner 1941. A rich golden orange. Our outside trial of this the past season called forth much favorable comment from visitors. Tr. pkt., 35c ½ oz. 75c; 1 oz. \$2.75.

Yellowstone (New). All America Honorable Mention 1942. Identical to above but a clear golden yellow. A clean looking and rich color. Tr. pkt., 35c; ½ oz., \$1.00; 1 oz., \$3.35.

Mission Giant Mixed. A blend of deep, medium and golden orange as well as bright lemon yellow, making a well balanced mixture in this new type. Tr. pkt., 25c; ½ oz., 70c; 1 oz., \$2.50.

OTHER CUT FLOWER VARIETIES

Prince of Orange, Imp. Bright orange of true quilled-petalled *Fistulosa* type. Produces 60 to 70% fully double, balance semi-and single. Tr. pkt., 25c; ½ oz., 50c; 1 oz., \$1.75.

Lemon Queen Improved. Same as above but bright lemon yellow. Tr. pkt., 25c; ½ oz., 50c; 1 oz., \$1.75.

Golden Emblem. Same type as above two. A bright golden color midway between them. Tr. pkt., 25c; ½ oz., 40c; 1 oz., \$1.35.

Golden Eagle. A bright gold carnation flowered type midway between Guinea Gold and Yellow Supreme. Tr. pkt., 25c; ½ oz., 40c; 1 oz., \$1.35.

***Sunset Giants.** An extra large Carnation flowered strain. Long stemmed and the largest flowered variety we know of. Ranges from lemon to deep orange and is around 65 to 75% true to type. Tr. pkt., 25c; ½ oz., 50c; 1 oz., \$1.75; 4 oz., \$5.50.

Orange Sunset. A bright orange selection from Sunset Giants. A first class variety. Tr. pkt., 25c; ½ oz., 50c; 1 oz., \$1.75.

American Beauty Orange. (*Chrysanthemum-Flowered*). A large flowered bright orange incurved or Mum-type flower. Rather late flowering for Northern growers. Prefer the new Mission Giant class. Tr. pkt., 25c; ½ oz., 65c; 1 oz., \$2.25.

American Beauty Yellow. Same as above, but a clear yellow. Tr. pkt., 25c; ½ oz., 65c; 1 oz., \$2.25.

American Beauty Mixed. A choice mixture of all colors in this type. Tr. pkt. 25c; ½ oz., 50c; 1 oz., \$1.85.

Crown of Gold. A small odorless crested Mum type with row of guard petals. Golden yellow; rather weak under hot summer conditions. Tr. pkt., 20c; ½ oz., 40c; 1 oz., \$1.25.

Josephine. Small flowered deep rich mahogany single. 24 inches. Tr. pkt., 20c; ½ oz., 30c; 1 oz., \$1.00.

WINTER FLOWERING. This class is of value for winter flowering from a fall sowing and will not flower during summer months.

Australian Tree. Golden yellow crest with mahogany guard petals. Tr. pkt., 25c; ½ oz., 40c; 1 oz., \$1.35.

Lieb's. Similar to above. Tr. pkt., 25c; ½ oz., 60c; 1 oz., \$2.00.

Lieb's Winter Sunshine. Similar to above two but a solid golden yellow. Tr. pkt., 25c; ½ oz., 60c; 1 oz., \$2.00.



*All Double Giant Marigolds make popular cut flowers.
They can be flowered in mid-winter.*

MARIGOLD SPECIALS

Four of a Kind!

A *Butterball (New).

Of uniform medium dwarf habit freely producing medium size scabious or anemone type flowers with a crest and guard petals a light golden or butter yellow faintly tipped with maroon. Early flowering and excellent for pots or bedding. Tr. pkt., 25c; $\frac{1}{4}$ oz., \$1.75; oz., 50c; 1 oz., \$5.50. 4 oz., \$8.00.

A *Sunkist (New).

All America Silver Medal Winner 1943. Beautiful deep golden orange flowers about an inch in diameter with small crested centers and several rows of guard petals. Uniformly dwarf and compact (3 to 4 in.) and exceptionally free and early flowering. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50; 4 oz., \$8.00.

And all aces in our opinion. All are of the increasingly popular scabious or anemone flowered type and are about as perfect in regard to trueness to type and color as any seed reproduced stock can be. Their early extra dwarf and free flowering habit suit them well for use as small blooming plants in combination boxes or for bedding. We feel that any progressive grower should not overlook them.

A

*Spry (New).

Extra dwarf and compact with medium small scabious type flowers having a rich golden yellow crest with contrasting bold mahogany guard petals. Very uniform in growth and exceptionally free flowering. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75; 4 oz., \$5.50.

A

*Ball Dwarf Harmony (New).

A fine companion variety for Spry, being not quite as compact as that variety, but uniformly dwarf. Its medium small scabious type flowers present a striking contrast in bright orange and velvety maroon. Tr. pkt., 30c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00; 4 oz., \$6.50.

A

Other Dwarf Varieties

(9,000 seeds per oz.)

In addition to the new scabious flowered types represented by the above four varieties, this group embraces many colorful and useful types including attractive singles and solid doubles. All are useful for spring flat sales as well as combination work.

***Melody.** (New) A solid clear golden orange anemone flowered type that improves Golden Harmony. Of uniform trueness to habit and color and a worthwhile addition in this class. Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.50.

***Harmony.** Attractive scabious or anemone type flowers with orange crest and maroon guard petals. Free flowering and fairly dwarf. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00; 4 oz., \$3.00.

Golden Harmony. Very similar to Harmony in flower type and habit but a solid bright golden yellow. Useful as a pot plant or for bedding. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00; 4 oz., \$6.50.

Harmony Hybrids. An attractive mixture of colors in the dwarf double type but with considerable variation in habit and time of flowering. Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.50; 4 oz., \$5.00.

Monarch Golden Ball. Dwarf, 12 to 15 in. Fully double closely-petaled golden orange. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

Monarch Mixed. A bright mixture of orange, yellow and mahogany colors in this fully double rounded flower class. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c; 4 oz., \$2.35.

Royal Scot. (All Double) Showy, fully double flowers striped gold and mahogany. Excellent, uniform strain. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

Limelight. Pale yellow Chrysanthemum-like flowers, 2 inches across. 15 to 20 inches in height. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

***Yellow Pygmy.** Excellent, very free flowering dwarf marigold, 6 to 8 in. Double lemon yellow and practically 100% true. Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.15.

Robert Beist. Dwarf double, deep rich mahogany-red. Nice. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

Pallida. Dwarf double lemon yellow. Tr. pkt., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

***Dwarf French Double Mixed.** An extremely gay and colorful mixture of dwarf double sorts. Excellent for combinations or borders. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00; 4 oz., \$3.00; 1 lb., \$10.00.

***Firecross.** Dwarf single. An attractive light orange with red center and remarkably true to its compact habit and color. Fine for outdoors. Tr. pkt., 15c; $\frac{1}{4}$ oz., 20c; 1 oz., 65c; 4 oz., \$2.00.

***Legion of Honor.** Very similar to Firecross, but considerably lighter in color. Both are valuable for early flowering in small pots. Tr. pkt., 15c; $\frac{1}{4}$ oz., 20c; 1 oz., 65c; 4 oz., \$2.00.

Little Giant (Signata Pumila) Mexican rather than French type. Freely produces quite small single bright orange flowers on uniformly dwarf, bushy plants. Fine even in hot localities. Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.25.

FORCING SNAPDRAGONS

FOR GROWING OUT-DOORS. We find the forcing or early class best for this purpose, especially if the strong growing kinds are used. Not only are they 1 to 2 weeks earlier flowering than most of the late or original class but the colors are much more complete and more uniform. However, the original or resistant strains should be used for out-door work where rust prevails for the forcing kinds have little or no resistance to it. For out-door work in our latitude, we find that a February 1st sowing grown on as cool as possible in 3 to 4 in. pots and planted out in May under cloth will produce excellent flowers by late June and more or less thru the summer. For early Winter flowering under glass, most sowings are made in June.

BALL TWELVE BEST

Our own growing experience together with demand from all sections of the country are considered in making up this preferred list. We believe it represents today's finest all-around forcing varieties.

If you order 3 or more full packets of varieties that are priced the same, the following schedule of grouping prices will be in effect:

Where Price is: \$1.00 per pkt., we supply ANY 3 for \$2.50; ANY 5 for \$3.50; ANY 7 for \$4.55. For \$1.50 pkts., we supply ANY 3 for \$4.00; ANY 5 for \$6.50. For \$2.00 pkts. we supply ANY 3 for \$5.00; ANY 5 for \$7.50.

½ tr. pkts. of any variety priced at \$1.00 are supplied at 60¢; ⅓ pkts. of \$1.50 varieties, \$1.00. No ¼ pkts. on \$2.00 varieties EXCEPT WHERE NOTED.

Koester's White. Excellent early pure white. Fine compact spike. Tr. pkt., \$1.50.

White Wonder. Our improved long-stemmed strain of this choice variety. Tr. pkt., \$1.00.

Christmas Cheer. Sold out until June. Recommend Ball Early Pink as a close substitute. Tr. pkt., \$2.00.

Mary Ellen. Sold out until June. Recommend St. Louis Pink for late spring flowering. Tr. pkt., \$2.00.

St. Louis Early Pink. Clear light pink. Long spike and fine for spring. Tr. pkt., \$1.50.

Better Times. Fine American Beauty rose-red. Plant close and grow single stemmed for spring. Tr. pkt., \$2.00.

Klondyke Supreme. A strong growing yellow. Choice spring variety. Tr. pkt., \$1.00.

Ethel. Medium deep yellow. Fine spike and a clean grower. Tr. pkt., \$1.50.

Afterglow. Continues as the best orange-bronze for spring flowering. Tr. pkt., \$1.00.

Glorious. A more intense Afterglow. Brilliant color for spring. Tr. pkt., \$1.50.

Velvet Supreme. Rich velvety crimson. Tr. pkt. only until June. Tr. pkt., \$1.00.

Ball Lavender. A rich lilac-lavender. Fine spike and long stemmed. Tr. pkt., \$1.50.

Ball Forcing Mixture. Carefully balanced mixture of the most popular varieties in our 12 Best list. Tr. pkt., \$1.00.

STANDARD VARIETIES

Tr. pkt.

***America.** Large flowered rose and orange bicolor. \$1.50.

Ball Christmas Red. Extra early velvety crimson. 1.00.

Ball Early Pink. Extra early large flowered pink. 1.00.

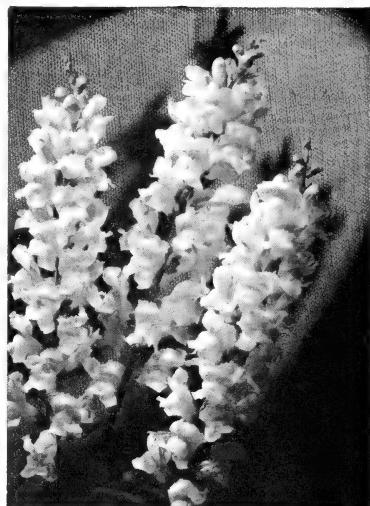
Ball Dwarf White. Suitable only for pot plants. 1.00.

Bertha Baur. Lavender. Originator's packets. 1.50.

Captor. White. 1.00.

Carol Jean (New) Clean growing, creamy yellow. 2.00.

Cheviot Maid Reselected. Rose pink. Our improved strain. 1.00



The vigorous growth of Koester's White combined with its pure white color and well-set spikes, suits it ideally for spring flowering.

Cheviot Maid Yellow.	Early yellow.....	\$1.00
Celestial.	Light yellow.....	1.00
Ceylon Court Dark.	Standard yellow.....	1.00
* Coates Yellow Perfection.	Fine yellow for spring.....	1.00
* Daybreak. (Rust-proof strain)	Light pink.....	1.00
Gilbert's Pink.	Deep rose pink.....	1.50
Ideal.	Bicolor rosy bronze and gold.....	1.50
Kirkwood Beauty.	Orange bronze.....	1.00
* Lucky Strike.	Standard white for spring.....	1.00
* Marie Louise.	Beautiful light shell pink.....	2.00
Maiden's Blush.	Pale bushy pink. ½ tr.pkt. 85¢.....	1.50
Marion.	Popular spring flowering white.....	1.50
* Maryland Pink.	Early light pastel pink. ½ tr.pkt. \$1.25.....	2.00
* Miss Wooster.	Spring flowering, golden orange.....	1.00
* New Cincinnati.	Long stemmed light rose-pink.....	1.00
New Cincinnati (New)	(Our early flowering strain: True and even.....)	1.00
New Deal.	Extra early bronze. Sunlite better.....	1.00
* Peggy Schumann.	Excellent spring flowering creamy rose.....	2.00
Radiance.	Extra early rose-pink.....	1.00
* Rose Queen.	Standard deep rose for spring.....	1.00
Schrock's Orchid.	Prefer Schumann's Lavender.....	1.00
* Schumann's Lavender.	Fine spring flowering lavender.....	2.00
Schumann's Yellow.	Medium yellow.....	2.00
Schaffroth's Pink.	Long stemmed pink. Color varies.....	2.00
Schaffroth's White.	Excellent long stemmed variety.....	2.00
* Sunlite.	Extra early golden bronze.....	1.00
Sunray.	Fairly light yellow.....	2.00
* Suntan.	Early flowering rosy tan.....	1.00
Terry's Surprise Improved.	Spring flowering rosy orange.....	1.00
Velvet Beauty.	Magenta crimson.....	1.00
Westover's Fringed White.	Large ruffled white for spring.....	1.00
Westover's Fringed White Early. (Windmiller's)	Early selection of the above.....	2.00
White Prosperity.	Clear white.....	1.50
Windmiller's La France.	Light pink.....	1.50
Windmiller's Lilac.	Fine early lavender.....	1.50
Windmiller's Rose Pink Cheviot.	Deep Rose.....	1.00
Windmiller's Appleblossom.	Fine light pink.....	1.00
Windmiller's Snow White.	Choice spring white.....	1.00
Winter Helen.	Improved Helen.....	1.00
* Yellow Wonder.	Extra early flowering.....	1.50
Standard Early Mixed.	Carefully blended mixture of the above varieties.....	.75

SUMMER SNAPDRAGONS

(175,000 seeds per ounce)

Generally we recommend the rust-resistant varieties for out-door growing, not only because of their rust-resistance but because they are apt to be truer to type. A sowing Feb. 1st of the longer-stemmed varieties will produce an excellent crop of flowers during early summer out-doors. For flat and plant sales, sow March 1st in most sections.

BALL TEN BEST

We consider these varieties the finest in their color classes and unhesitatingly recommend them for outdoor growing.
ALL ARE RUST RESISTANT.

Rosalie. (Majus Grand.) Same color as winter flowering Rose Queen. Closely set spike and good stem. Fine for cut-flowers and should not be overlooked.

Pinkie. (Majus Grand.) Much like the above in growth. A medium rose pink, about the color of winter-flowering Cheviot Maid.

Alaska. (Maximum) The best clear white. Long stemmed and an excellent cut flower variety.

Canary Bird. (Maximum) Fine long stemmed clear light yellow.

Yellow Jacket (Majus Grand.) Deep yellow and fine for cutting.

Defiance. (Majus Grand.) Shades of attractive bronze and wallflower red.

Maximum Crimson. A rich, deep velvety crimson, color of winter-flowering Velvet Supreme.

Red Cross. Attractive combination of velvety crimson and bright golden yellow.

Improved California Mixture. The above excellent cut flower varieties are blended by ourselves in this formula mixture in proportion to their commercial value and sales demands.

Golden Orange. An extremely choice dwarf variety for bedding only. 100% true to its light golden orange color and compact habit.

PRICES on all the above: Tr. pkt. 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.



Rust-Resistant type as grown in California.

OTHER FINE OUT-DOOR SNAPS

(Except Ball Ten Best)

MAXIMUM. The strong growing, long stemmed type for cutting.

Appleblossom. (Rust Res.) Light pink with yellow lip and white tube.

Campfire. (Rust Res.) Bronzy scarlet.

***Copper King.** (Rust Res.) Fine copper-scarlet.

Daffodil. (Rust Res.) Canary yellow.

Loveliness. (Rust Res.) Shades of light pink.

***Ruby.** Fine deep cherry red.

***Snowflake.** Exceptionally fine pure white; long stems.

***Swingtime.** (Rust Res.) Fine medium-light pink with white throat.

***Yellow Giant.** (Rust Res.) Rich yellow.

Mixture. (Rust Res.) Choice colors.

PRICES on all above varieties, including MIXTURE. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

MAJUS GRANDIFLORA. Not quite as long-stemmed as the Maximums, but long enough for good cut flowers. Large-flowered.

***Buttercup.** (Rust Res.) Long-stemmed, medium yellow.

Opal Queen. (Rust Res.) Terra cotta pink.

Shasta. (Rust Res.) Creamy white.

Terra Cotta Pink. Apricot-pink shades.

Wallflower Red. (Rust Res.) Varies.

***Hybrid Mixture.** (Rust Res.) A brilliant mixture of all colors in this class.

PRICES on all above varieties including MIXTURE. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

MAJESTIC. Extra large flowered with medium long stems.

Fair Lady. Clear light rose pink. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

Golden Dawn. Light golden bronze. Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

***Rose Sensation.** (Super Majestic Rust Res.) A fine "New Cincinnati" shade of light pink. Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

Mixture. (Rust Res.) Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

NANUM GRANDIFLORUM. The dwarf and compact class for bedding.

Appleblossom. (Rust Res.) NEW. A clear medium pink, shading lighter toward edges of petals with attractively contrasting yellow lip and white tube. Uniform bushy growth and quite outstanding. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

Empress. Velvety crimson. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

Flame. Bright fiery scarlet. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

Gloria. Deep rose pink. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

Golden Queen. Rich golden yellow. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

***Gypsy Girl.** (Rust Res.) Bi-color rose and purple with white tube. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

Indian Girl. (Rust Res.) Bronze. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

Purity. Clear white. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

***Royal Rose.** Rich deep rose. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$4.00.

***Royal Cerise.** Brilliant cerise rose. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$4.00.

***St. George.** Flashing orange cerise. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$4.00.

Mixture. (Rust Res.) A choice mixture of colors in this increasingly popular class. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

TOM THUMB Magic Carpet. An attractive mixture of colors in this extra dwarf class. (4 to 6 in.) Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

LATE OR SUMMER PEAS

(350 seeds per oz.)

In our latitude, or where hot summers are not relieved by cool nights, summer peas are usually destroyed by mid-July. For this reason a Spring sowing usually gets in too late to be profitable. For 25 consecutive years, we have grown a profitable crop outdoors by sowing the seed indoors not later than February 1, growing into 3 inch pot plants and planting out around mid-April. We protect them against freezes and heavy frosts after this date with a V-shaped protection made by nailing two 6 inch cypress

boards together. With all the overhead water they will stand and 5 foot high wire and string supports, we have them in crop by June 15th. Two weeks of heavy June picking assures us a nice profit for the greenhouse crops are usually thru at that time and the demand for peas is active until the 1st day of July. But this outdoor crop must be sprayed weekly for aphis until they get in flower. Most failures with this crop are due to not watching this point.

BALL SIX BEST Late Peas

- ***Pinkie.** Finest large flowered rose-pink; long-stemmed and a heavy producer.
- ***Gigantic.** A fine clear black-seeded white; extra large wavy flowers, many duplexed.
- ***Ball Shrimp Pink.** A pleasing soft shrimp pink. Vigorous growth and long stems make this outstanding.
- ***King Lavender.** Exceptionally fine clear even lavender with long, strong stems. Excellent growth.
- ***Windsor Blue.** A supremely fine mid-blue. Its clear even color, stem length, and flower size set it apart.
- ***Welcome.** An intense sunproof scarlet of vigorous growth. Fine flower size and stem, and a heavy producer.
- ***Six Best Mixture.** Composed only of the above varieties in proportion to their commercial value.

PRICES on All Above Varieties and Mixture. 1 oz., 25c; 4 oz., 70c; 1 lb. \$2.25.

TWO OUTSTANDING VARIETIES

***ECSTASY.** A pleasing shade of light salmon or shrimp pink that does not burn readily under strong sunlight. Large ruffled flowers freely produced on long, strong stems make this a valuable variety.

***BLUE MOON.** A clear even mid-blue with exceptionally tall and strong growth. Medium sized, ruffled flowers are carried mostly in 4's on strong stems. Good producer.

PRICES on Above Two Varieties: 1 oz. 25c; 4 oz. 70c; 1 lb. \$2.25.

GENERAL LIST

- Ambition.** Rosy lavender.
- ***Amethyst.** Lilac blue. Fine clear color.
- Ascot.** Light rose pink.
- Avalanche.** White-seeded clear white.
- Beattall.** Pink suffused salmon.
- Begonia Rose.** Even light rose pink.
- Blue Bird.** Clear medium blue.
- Blue Flame.** Bright deep blue.
- ***Bonnie Briar.** Fine rose pink.
- ***Chinese Blue.** Good clear medium blue.
- Constance Hinton.** Black-seeded white.
- Crimson King.** Deep crimson.
- ***Crony.** An intense coral or salmon rose. Fine stem and flower.
- ***Discovery.** A pleasing chamois pink.
- ***Fairyland.** A fine clear pink on cream ground.

***Flagship.** Deep brilliant navy blue.

Fluffy Ruffles. Soft cream pink.

Giant White. Clear white.

Hawkmock Pink. Light rose pink.

***Headlight.** Fine sunproof orange scarlet.

Heavenly Blue. Clear mid-blue.

***Highlander.** Fine large lavender.

Lady Ruffles. Large ruffled soft pink.

Loveliness. Silvery pink, cream ground.

Magnet. Salmon rose.

Mary Pickford. Creamy salmon pink.

Mastercream. Cream. Black seeded.

Matchless. Cream. White seeded.

***Maytime.** A rich golden cerise with large flowers and long stem.

Miss California. Large salmon rose.

***Olympia.** Mauve. Near Triumph color in Earlies.

***Pinnacle.** A fine deep rose.

Powerscourt. Standard lavender.

***Red Rover.** Deep crimson (same as Red Wood in Earlies.) Strong growing.

Royal Purple. Deep purple.

***Snow White.** Large flowered, vigorous growing pure white.

Springtime. Nice clear rose.

***Stylist.** Large flowers of clear deep salmon rose-pink.

***Sweet Afton.** Strong growing clear bright pink. An excellent variety.

Warrior. Deep bronzy-maroon.

PRICES on all above varieties, each: 1 oz., 25c; 4 oz., 70c; 1 lb. \$2.25.

Ball Florists' Mixture. A well-balanced mixture of all colors in the late-flowering class, predominating in good cut-flower colors. 1 oz., 20c; 4 oz., 60c; 1 lb., \$1.75; 5 lbs., \$7.00.



We have grown such a lot of outdoor peas every season for the past 25 consecutive years, nearly every year showing a profit. An early start, controlling aphis and plenty of water are the big points.

EARLY OR WINTER PEAS

(350 seeds per oz.)

In our latitude, we find a greenhouse planting of this class up to Valentine's Day will produce a nice crop throughout May. For this planting, sow around mid-January and grow on 2 or 3 plants in a 3 in. pot. This late planting

SPRING FLOWERING VARIETIES

Growers in most localities will find this class much superior to the Earlies for May and June flowering. From a January or early February sowing a fine crop of extra large and long-stemmed flowers can be had at a time when the Winter Peas begin to shorten noticeably.

***Black Seeded White.** Excellent pure white. Its large frilled flowers and heavy stems make an outstanding display.

***Navy Blue.** Brilliant deep marine blue. Vigorous growth and fine large flowers.

Light Blue. Beautiful light Princess Blue shade. Nicely ruffled flowers increase its value.

Light Carmine. (Deep Rose Cerise) A pleasing bright cerise rose on salmon. Fine stem and lots of 4's.

Light Cream Pink. Extra long stemmed, soft light cream pink.

PRICES on All Above Spring Flowering Varieties:

$\frac{1}{2}$ oz., 60c; 1 oz., \$1.00; 4 oz., \$3.75; 1 lb., \$12.50.

***Mauve.** Closely resembles Winter Flowering Triumph in its rich coloring. Of fine spring flowering habit.

***Blue.** A fairly deep "Hoover" blue.

***Lavender.** A clear even shade. Good producer.

***Rose Pink.** Similar in color to Laddie Improved.

***Mixture.** A formula mixture balanced according to demand for each color.

PRICES on Above Four Spring Flowering Varieties and Mixture: $\frac{1}{2}$ oz., 35c; 1 oz., 50c; 4 oz., \$1.50; 1 lb., \$5.00.

OUR 12 BEST VARIETIES

Ball Rose Queen. Extra long stems and large flowers, with vigorous growth, place this variety at the head of the clear rose pinks. Because of a short crop, we are able to supply up to four oz. only of this variety.

Ball Rose Supreme. Large flowered, bright, clear silvery rose pink. Excellent producer that decidedly betters our Ball Rose Improved. Because of a short crop, we are able to supply up to four oz. only of this variety.

Hiawatha. Strong growing large flowered fine deep rose.

An exceptionally warm and brilliant color for spring.

Twilight. A bright, clear, large flowered lavender that improves Harmony in flower size and stem length.

Triumph. Long stemmed rich lilac mauve. A fine market variety that is becoming increasingly popular.

Tahoe. The finest clear medium blue for spring. Improves Mrs. Hoover in flower size and stiffness of stem.

Princess Blue. Soft, light lavender-blue. Extra large flowers and long stems make this a choice variety. Price: $\frac{1}{2}$ oz., 35c; 1 oz., 50c; 4 oz., \$1.50; 1 lb., \$5.00.

Ball White. The largest flowered, longest stemmed, pure white. Use care in germinating this white-seeded variety, not to overwater.

Ball Salmon. Fairly deep salmon or coral pink; brighter in spring than Daphne. Medium flower size, but an excellent producer. Price: $\frac{1}{2}$ oz., 35c; 1 oz., 50c; 4 oz., \$1.50; 1 lb., \$5.00.

cannot become as strong and long-stemmed as the after-Mum start. But if unchecked and in clean soil, they do well. We find the new SPRING FLOWERING CLASS especially adapted to this late planting.

Ball Orange Improved. The finest clear orange. Of medium growth, but a brilliant intense color.

Treasure Island. Long stemmed, glowing orange-scarlet, exceptionally large, wavy flowers of good substance. Price: $\frac{1}{2}$ oz., 35c; 1 oz., 50c; 4 oz., \$1.50; 1 lb., \$5.00.

Fiesta. Large flowered, brilliant orange-cerise. We consider this striking color the finest red in early peas. Price: $\frac{1}{2}$ oz., 35c; 1 oz., 50c; 4 oz., \$1.50; 1 lb., \$5.00.

12 Best Mixture. Our own formula mixture of the above varieties predominating in the best commercial colors.

PRICES on All Above Early or Winter Flowering Pea Varieties, except where noted are as follows: $\frac{1}{2}$ oz., 25c; 1 oz., 40c; 4 oz., \$1.25; 1 lb., \$4.00.

OTHER GOOD EARLY FLOWERING VARIETIES

American Beauty. American-Beauty rose.

Amethyst. Rich bright mauve-purple.

Apollo. Salmon-cerise.

Attraction. Long-stemmed salmon rose.

***Bacchus.** Deep maroon-purple. Large flowered.

Ball Rose Imp. Standard bright rose.

***Blue Danube.** A clear deep blue.

Boon. Deep salmon-rose.

***Bridesmaid.** Delightful silvery pink. Large flowered.

Bright Light. Vivid orange-scarlet.

***Cinderella.** Large flowered clear light blue.

Columbia. Rose and white bi-color.

***Daphne.** Soft salmon-pink on cream. Large flowered.

Eleanor Blue. Light blue; for spring flowering only.

Fragrance. Clear lavender for spring flowering.

***Gardenia.** Finest long-stemmed pure white for spring.

Grenadier. Poppy-scarlet.

***Harmony.** Standard early flowering lavender.

Heather Bell. Pleasing orchid-lavender. Rather small flowered.

***Hope.** Fine black-seeded white.

Jeanne Mamitsch. Clear rose; long-stemmed.

***Josie.** Longest-stemmed clear rose pink.

***Laddie Imp.** Long-stemmed fairly light rose pink.

Majestic Rose. Fine large-flowered rose-pink.

Michigan. Clear lavender.

***Mrs. Hoover.** Fine early blue; prefer Tahoe for spring.

Oriental. Black-seeded cream.

***Pride.** Extra long-stemmed brilliant cerise.

Prosperity. Soft glowing rose-cream.

Red Bird. Crimson-red.

***Redwood.** Large-flowered deep, velvety crimson.

***Rhubma.** Excellent salmon cerise for spring.

Sequoia. Large flowered standard salmon rose.

***Signal Red.** Fine long-stemmed brilliant red. ONE OUNCE ONLY.

Snowstorm. White-seeded white. Rather small-flowered.

***Sparks.** The finest poppy scarlet.

Success. Bright deep rose.

Sunproof Orange. Brilliant orange cerise.

Sunray. Light cerise; fine long stem.

Top Hat. Deep bright violet-blue.

***Tops.** Extra large, wavy flowered light salmon rose.

***White Harmony.** Fine black-seeded white.

All Above Varieties Priced at: $\frac{1}{2}$ oz., 25c; 1 oz., 40c; 4 oz., \$1.25; 1 lb., \$4.00.

Ball Early Mixture. A well-balanced mixture of the above colors. $\frac{1}{2}$ oz., 20c; 1 oz., 30c; 4 oz., \$1.00; 1 lb. \$3.50.

BALL STOCKS

Non-
Branching

(18,000 seeds
per ounce)

The ease with which good quality Non-Branching Stocks are grown, if soil has been properly sterilized, must not be overlooked in these days of labor shortages. Requiring no disbudding and with two sets of supporting wires usually being sufficient, a saving of time can be realized on this crop that should not be minimized. Seed supplies of most varieties are ample.

PRICES on All Non-branching Varieties as Follows: $\frac{1}{2}$ Tr. pkt., 60c; Tr. pkt. (about 1,200 seeds), \$1.00; $\frac{1}{4}$ oz., \$2.50; 1 oz., \$9.00.

THREE PROVEN MONEYMAKERS

These three varieties constitute the most popular on our list and each is supremely fine either for retail or market use.

***No. 16 Ball White Improved—Medium Tall.** Our finest early pure white, with extra large florets, and well-formed, compact spikes. Easily flowered in late May from a January sowing. We have an ample seed supply of this excellent variety.

***No. 1 Lilac Lavender.** Our own excellent large flowered strain, well-liked by all markets. Fine for Memorial Day at which time this color is usually short. Plentiful seed supplies.

***No. 22 Ball Supreme.** Supremely fine in its rich silvery rose shading, with extra long stems and fine heavy spike. A first prize winner at the Society of American Florist's National Flower Show in Chicago last spring.

WHITE VARIETIES

No. 15 Ball White Improved. Long-stemmed pure white. Trade Packets Only

No. 5 Ball White Extra Dwarf. Supply of this choice pot plant variety exhausted until next Sept.

No. 2 Ball White. Our original long-stemmed faintly tinged white.

Gardenia. A late flowering pure white.

LAVENDER, BLUE AND PURPLE VARIETIES

***No. 3 Ball Blue.** A medium lavender mauve, identical in habit to Lilac Lavender.

No. 21 Ball Purple. Long-stemmed, extra early bright violet purple.

No. 23 Pastel Lavender. Pale, smoky lavender. Trade packets only.

BRANCHING STOCKS

GIANTS OF CALIFORNIA

***Pacific.** Fairly dark lilac-mauve.

***Yosemite.** The shade of Bismarck Rose.

Roselight. A clear bright pink.

***Santa Maria.** Best branching white.

PRICES for Above Four Varieties
Each: Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.50.

Mixture of all colors in this fine class.
Price: Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.15; 1 oz., \$4.00.

DWARF TEN WEEK

Blood Red Carmine-Pink Lavender

Canary-Yellow Deep-Rose Purple

White Formula Mixture

PRICES for Above Varieties and Formula Mixture: Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.00.

IMPROVED BISMARCKS

Antique Copper. Fine copper red.

Apple Blossom. Pale, delicate pink.

Blood Red. Bright ruby red.

Buttercup. Deep cream, strong growing.

Chamois. Clear chamois or buff.

Elks Pride. Rich purple.

Flesh. Pale coral pink.

Golden Ball. Ivory yellow.

Golden Rose. Chamois pink.

Lavender. Clear lilac lavender.

Lilac. Fairly deep lilac blue.

Rose. Fine bright rose pink.

Shasta. Giant-flowered white.

White. Good clear white.

Formula Mixture of above colors.

PRICES Each: Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.15; 1 oz., \$3.50.

PERPETUAL BRANCHING (Giant Perfection)

***Empress Augusta Victoria.** Silver lilac Rose. A clear even shade.

Mixture of above.

PRICES on the above varieties and mixture: Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.65.

BEAUTY OF NICE

Cote D'Azure. Light lavender-blue.

Mont Blanc. Clear extra early white.

Queen Alexandra. Rosy lilac; fine.

Mixture of above.

PRICES on the above varieties and mixture: Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.65.



*Victory in war
as in Peace
is an
American tradition.
It must not
fail us.*

PINK AND ROSE VARIETIES

***No. 11 Ball Pink.** Medium light rose pink. Early and fairly long-stemmed.

No. 14 Ball Rose Pink. A fairly deep shade.

No. 9 Chamois Pink Improved. Better percentage of doubles and longer-stemmed than our original strain.

No. 7 Malmaison Pink. A blush pink shade.

MISCELLANEOUS VARIETIES

***No. 20 Ball Apricot.** Strong growing buff; large flowered.

No. 17 Gold Standard. Attractive deep ivory yellow.

No. 8 Ruby. Long-stemmed rich crimson.

No. 6 American Beauty. Deep American Beauty Rose.

No. 10 Mixture. Our own carefully prepared formula mixture of above varieties.

PRICES On All Non-Branching Varieties as Follows: $\frac{1}{2}$ tr. pkt., 60c; Tr. pkt. (about 1,200 seeds), \$1.00; $\frac{1}{4}$ oz., \$2.50; 1 oz., \$9.00.

ANNUAL LARKSPUR (8,000 seeds per oz.)

Long stems and choice colors explain the increasing interest in this half hardy annual. A Jan.-early Feb. sowing grown on a raised bed, 45-48° house should get in for Mother's Day, with long enuf stems for any purpose. Also, it grows along fast enuf to resist rot better than fall planting that must go thru the depth of winter and that usually makes an unnecessary amount of growth, especially if in a deep bed. Much sowing is also done around March 1 to grow into young plants for outdoor planting. Such a start, of course, produces an earlier crop than a later outdoor sowing. In sections further south than we are, such a start might not pay so well because of early crops from outdoor fall sowings that make established plants before winter sets in.

SIX BEST Cutting Varieties

According to our own market experience as well as seed demands, these represent the most satisfactory and profitable of the standard varieties. All are base branching.

- ***Blue Bell.** Clear mid-blue; excellent.
- ***Blue Spire.** Deep violet blue.
- ***Sweet Lavender.** Clear, even lavender.
- ***Gloria Imp.** Extra fine, deep rose.
- ***Rosalind.** Shatter proof, salmon rose.
- ***White King.** Finest large-flowered pure white.
- ***6-Best Mixture.** A formula mixture of the above varieties.

BASE-BRANCHING Or Imperial Varieties

Carmine King. Bright carmine-rose. Prefer Dazzler.

***Coral King.** Pleasing, soft coral rose. Daintiness. Light lavender. Too light for outdoor conditions.

***Dazzler.** A deeper rosy carmine than Carmine King.

***Exquisite Pink Imp.** Fine soft pink.

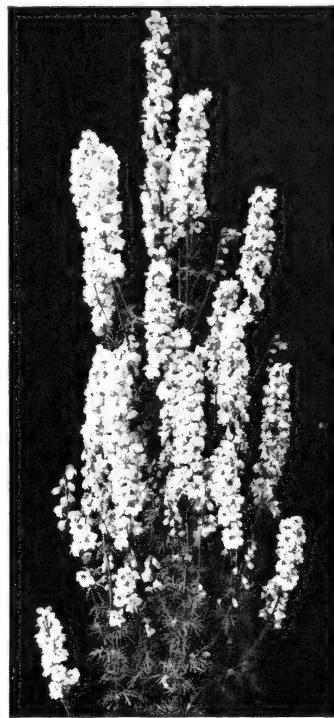
***Lilac King.** Slightly lighter than Sweet Lavender. Fine habit.

***Lilac Queen.** Rich deep lilac-lavender. Los Angeles Imp. Bright salmon rose.

***Miss California.** Pleasing, salmon pink.

***White Cockade.** Fine, fully double pure white flowers.

White Spire. Clear white. Prefer White King.



Stock-flowered type of Larkspur Rosa-mond, the finest deep rose

***Formula Mixture** of the above varieties predominating in the good commercial colors.

PRICES on all above varieties including mixtures and the Six Best: Tr. pkt., 25c; $\frac{1}{4}$ oz., 35c; $\frac{1}{2}$ oz., 60c; 1 oz., \$1.00; 1 lb., \$10.00. 4 oz. of any ONE variety at lb. rate.

SUPER MAJESTICS (New)

Identical to the base-branching or Imperial type except for a much stronger and taller growth and slightly later flowering period. Well suited for outdoor culture under hot and trying weather conditions.

Rose Pink. A rich bright rose-pink. Tr. pkt., 35c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

White. Large flowered, clear white. Tr. pkt., 50c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

STOCK FLOWERED Varieties

Dark Blue. Rather deep violet-blue.

***Lilac Supreme.** A clear deep lilac.

Lilac Improved. Mid-lilac; slightly lighter than above.

Los Angeles. Bright salmon-rose.

***Mauve Beauty.** Medium lavender-mauve.

Rosamond. Excellent, free flowering deep rose.

Rose Queen. Attractive rose-pink.

Sky Blue. A light blue.

***Tempest.** Brilliant deep blue.

White. Prefer White King.

Formula Mixture of above varieties.

PRICES on all above Stock-Flowered varieties and Mixture. Tr. pkt., 25c; 1 oz., 60c; 1 lb., \$7.50.

DWARF EMPEROR Mixture

An interesting dwarf growing type, less than half the height of the cut flower types. Tr. pkt., 20c; $\frac{1}{2}$ oz., 35c; 1 oz., 60c.

GIANT HYACINTH Flowered

Produces one long non-branching spike. Fine for long-stemmed cut flower purposes. Germination somewhat uncertain.

Dark Blue **Pink** **Lilac** **Purple**
White **Mixed**

PRICES on all the above varieties including Mixture: Tr. pkt., 30c; $\frac{1}{4}$ oz., 40c; $\frac{1}{2}$ oz., 65c; 1 oz., \$1.15; 1 lb., \$11.00.

The BALL Calendula (3,000 seeds per oz.)

FORCING VARIETIES

Still the supreme florist's cut flower strain. Originated by us 23 years ago, we continue annually, to make individual selections for planting stock, thereby insuring the steady maintenance of our high standard in these varieties.

***Ball Improved Long Orange.** The longest stemmed and largest flowered variety. Bright golden orange with light eye.

***Ball Masterpiece.** Deep glowing orange with dark eye.

***Ball Lemon Queen.** Lemon yellow with contrasting brown eye.

***Ball Gold.** Deep golden yellow with light eye.

Ball Long Orange. Extra deep, intense orange. Light-eyed.

Ball Sensation. Similar to above.

Ball Apricot. Our own improved strain of this attractive dark-eyed, buff colored variety.

Campfire. Popular deep orange.

PRICES on ALL above varieties EACH: Tr. pkt., 40c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00; 2 oz., \$3.50; 4 oz., \$6.50.

Prices on weight lots will be accepted on 2 or more varieties together. For instance, on $\frac{1}{4}$ oz. each of 4 varieties, instead of allowing 60c each, the ounce price of \$2.00 will be accepted.

***Ball Formula Mixture.** Carefully made up of the above varieties with fully half orange. Fine for retail growers.

Ball Art Shades Mixture. Contains many original and unusual shades and interesting bi-colors.

PRICES on Above Mixtures Only Each: Tr. pkt., 35c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

BEDDING VARIETIES

Orange Shaggy. Finely fringed petals.

Frilled Beauty. Deep orange, attractively frilled.

Sunshine (Chrysanth) Loose petalled bright yellow.

***Apricot Queen.** Apricot-buff with orange petal tips.

Radio. Attractive bright orange; quilled petals.

Radio Golden Beam. Yellow selection of above.

Lemon Queen. Light lemon yellow.

***Orange King.** Deep orange with dark eye.

***Ball Bedding Mixture.** Well proportioned dwarf mixture.

PRICES on ALL above varieties and mixture: Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 85c; 1 lb., \$7.00.

MISCELLANEOUS ANNUALS



In the final analysis the one thing of prime importance to the florist-grower, concerning any item or variety that he grows, is this: "Is it profitable?" Either it must be directly profitable to him in dollars and cents or, as in the case of worthwhile novelties, be of advertising value to him by keeping up his reputation for progressiveness. The few minor items that may not be found in our list this year were either of foreign origin and unavailable now, or are available in inferior and unprofitable strains only. Rather than lower our standard of "All the best—" we are dropping them from our catalog.

(*) Indicates varieties most satisfactorily in our EXPERIENCE AND OBSERVATION

In reply to numerous requests we include with this catalog again the number of seeds per ounce of important items listed. For example: **ABRONIA**—1600 S. means 1600 seeds per oz. These figures must NOT be accepted as indicating the number of plants to be expected. Under favorable germinating conditions most large seeds will germinate 50 to 60 per cent.

ABRONIA

Umbeliatia. (Sand Verbena). 1600 S. A creeping or trailing annual producing attractive pink flowers. Fine for hot localities and fragrant. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 65c.

ACROCLINIUM

New Hybrids. (Sensation Giants). 8500 S. Choice bright-colored Strawflowers for spring cutting. The extra large semi-double strain. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

AGATHEA

Coelestis. (Felicia amelloides or Blue Daisy). 27,000 S. Fairly tall (30 in.) Of irregular and slow germination. For the dwarf blue daisy see *Felicia Bergeriana*, page 26. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.85.

AGERATUM

***Golden Ageratum.** (Lonas inodora). Freely produces large clusters of Ageratum-like golden yellow flowers on medium tall (12-in.) plants. Very colorful for bedding or borders. Tr. pkt., 35c; $\frac{1}{16}$ oz., 75c; $\frac{1}{8}$ oz., \$1.35; $\frac{1}{4}$ oz., \$2.50.

MEXICANUM 200,000 S. Most seed-produced strains, vary in habit but make satisfactory material for flat sales.

***Blue Bedder.** The best seed-produced strain we know of. Although not "die true" it is a fairly uniform dwarf and free flowering variety for bedding. 4 to 6 in. Tr. pkt., 35c; $\frac{1}{8}$ oz., 85c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.



A truly novel addition to the Ageratum group with its golden-yellow flowers. Especially good as a bedding or border plant.

***Midget Blue.** Small, clear blue flowers, freely produced. One of the better strains. Tr. pkt., 35c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.65; 1 oz., \$5.00.

Blue Ball Improved. 6 to 10 in. A large flowered strain. Tr. pkt., 25c; $\frac{1}{4}$ oz., \$1.00.

Blue Perfection. 10 to 15 in. Large flower heads. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

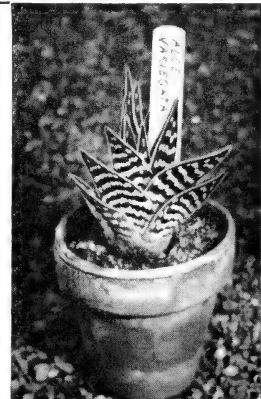
Imperial Dwarf White. 10 to 12 in. Fairly even medium dwarf, large-flowered white. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

Tall Blue. 24 in. Uniformly large-flowered. Tall strain for cutting. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

ALOE

***Variegata.** (Tiger Aloe).

The attractively green and yellow tigered, succulent leaves and the ease with which nice 2-in. pot plants can be produced in a year's time or less make this a valuable item for florists. A very popular and generally satisfactory house plant that should be sown in early spring to produce salable plants in the shortest time. 100 seeds, \$1.50; 500 seeds, \$6.50; 1000 seeds \$11.00.



Aloe Ferox

(African wart aloe)

A fast growing succulent (see photo) that will produce small salable plants in 6 to 8 months from sowing. Much faster growing than *Aloe variegata*. Good germination on succulent seed is obtained by sowing on top of a $\frac{1}{4}$ inch layer of sphagnum moss which is underlaid by wet soil. A soil temperature of at least 65 to 70 deg. is necessary for good germination. 100 seeds, 50c; 250 seeds, \$1.00; 500 seeds, \$1.75; 1000 seeds, \$3.00.



MISCELLANEOUS ANNUALS—Continued

ALYSSUM

90,000 S. All are delightfully fragrant and do well even in poor soils. The following are the finest strains available.

***Carpet of Snow.** (*Procumbens* Snowcloth). Produces a very dense flat mass of white flowers, 3 to 4 in. high by 8 to 10 in. across. Excellent, uniform strain. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c; 4 oz., \$2.25.

***Little Gem.** 5 in. Dense rounded heads of white flowers; does not spread. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c; 4 oz., \$2.25.

***Violet Queen.** 5 in. Of the same dwarf compact type as Lilac Queen but much deeper in color. Should be preferred to Lilac Queen because of its better color. Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.25; 4 oz., \$4.25.

Lilac Queen. 5 in. Same as above but light lilac. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

Maritimum. (Sweet Alyssum). 10 in., medium tall strain. Tr. pkt., 10c; 1 oz., 40c.

For **Perennial Alyssum**, see page 38.

AMARANTHUS

Molten Fire. 28,000 S. 4 ft. Attractively variegated deep red foliage. Plants do best when not transplanted and prefer dry, open locations. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

ANCHUSA

Blue Bird. (*Capensis*). 1100 S. Attractive deep Forget-Me-Not blue flowers, 18 to 24 in. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c. For **Perennial Anchusa**, see page 38.

ARCTOTIS

Brevisarpa Aurantiaca. 7700 S. 6 in. Single daisy-like orange flowers with dark centers. Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c.

Grandis. 25,000 S. Single silvery white flowers with lilac shading and dark center. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

ASCLEPIAS

Curassavica. 2 to 3 ft. Produces clusters of orange-red flowers from leaf axils. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.25.

ASPARAGUS

750 S. Our new crop is available about Feb. 1, from a California specialist and in a soil temperature of at least 70°, will germinate 65 to 75%.

Plumosus. The fine feathery variety.

Sprengeri.

Prices on Above Two Varieties: Each 100 seeds, 25c; 250 seeds, 50c; 1000 seeds, \$1.35; 5000 seeds, \$6.00; 1 lb., \$10.00.

For **Baby's Breath**, see *Gypsophila*, page 27, and *Euphorbia Corollata*, page 40.

BALSAM (3300 S.)

***Double Bush Flowering Mixed.** 15 in. Because flowers are produced above the foliage, this class is by far the most attractive. Absolutely even in habit. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

Double Camellia-Flowered Mixed. 24 in. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

For **Bachelor Button**, see *Centaurea Cyanus*, page 23.

For **Blue Lace Flower**, see *Didiscus*, page 26.

BEGONIA

***Ball White.** (new) Uniformly dwarf compact growth and freely produced, small, faintly tinged white flowers make this a fine pot plant variety where white can be used. Greatly improves White Pearl in habit and purity of color. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.25; $\frac{1}{2}$ oz., \$4.00.

***Pink Radio.** (new) Fairly strong growing rich glowing rose with extra large flowers frequently measuring 2 inches or more across. Very attractive. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.25; $\frac{1}{2}$ oz., \$4.00.

***Adeline.** Dwarf, small but extra free flowering bright pink. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.50.

Albert Martin. Large flowered bright carmine. Tr. pkt., 75c.



The fibrous rooted Begonias reach their highest usefulness as pot plants for spring sales. Sow seed any time from May to December.

BEGONIA, continued

***Carmen.** The original bronze-leaved Begonia. Flowers a bright rose-pink. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.00; $\frac{1}{2}$ oz., \$3.75.

Christmas Cheer. Fairly dwarf crimson-scarlet. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.75; $\frac{1}{2}$ oz., \$3.25.

***Darling.** Bright clear pink; large flowered and compact growth. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.25; $\frac{1}{2}$ oz., \$4.00.

Elegant. Unusually large, bluish pink flowers with darker edges. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.00; $\frac{1}{2}$ oz., \$3.50.

Erfordia. Free flowering clear pink. Tr. pkt., 50c; $\frac{1}{2}$ oz., \$1.50.

***Fire Sea.** (Blaze of Fire). Large fiery red with green foliage. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.75; $\frac{1}{2}$ oz., \$3.25.

Glory of Erfurt. Large flowered, medium rose shades. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.15; $\frac{1}{2}$ oz., \$2.00.

Glow. Showy red flowers with green foliage. Tr. pkt. only, \$1.00.

Ille de France. A large, pure white flowered variety with light green foliage. Growth fairly strong. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.00; $\frac{1}{2}$ oz., \$3.75.

***Indian Maid.** Foliage a deep lustrous bronze with richly contrasting scarlet flowers. Dwarf habit. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.25.

***King of The Reds.** Glowing red flowers, green foliage, and a vigorous but dwarf and compact habit make this variety valuable for pots or border work. A fine compact red Begonia. Tr. pkt. only, \$1.00.

Lightning. Large carmine-scarlet flowers; deep green foliage. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.50; $\frac{1}{2}$ oz., \$2.60.

Luminosa. Deep scarlet with reddish brown foliage. Tr. pkts. only, \$1.00.

***Luminosa Compacta.** Extra dwarf and compact; rather small, bright scarlet flowers very freely produced. Tr. pkts. only, \$1.00.

Mignon. Brilliant salmon-scarlet. Semi-dwarf. Tr. pkt., 75c; $\frac{1}{2}$ oz., \$2.00.

MISCELLANEOUS ANNUALS—Continued

Prima Donna. Light rose pink shading to carmine. Medium dwarf. Tr. pkt. \$1.00.

***Scandinavia.** Very free flowering bright rose pink. Fine bushy pot plant habit. Tr. pkt., \$1.00; $\frac{1}{2}$ oz., \$1.75; $\frac{1}{4}$ oz., \$3.25.

Scandinavia Red. Identical to the above except for its bright carmine-scarlet flowers. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.25; $\frac{1}{2}$ oz., \$4.00.

Scandinavia White. A white Scandinavia selection. Tr. pks. only, \$1.00.

Scarlet Queen. Large flowered scarlet with bronzy-green foliage. Tr. pkt., 75c; $\frac{1}{4}$ oz., \$1.15; $\frac{1}{2}$ oz., \$2.00.

Mixture. A complete mixture of all colors in the fibrous-rooted class. Tr. pkt., 50c; $\frac{1}{2}$ oz., \$1.50.

Tuberous Rooted Single Mixed. Attractive shades of orange, rose, scarlet, etc. Large flowered. Tr. pkt., \$1.00; $\frac{1}{2}$ oz., \$3.00.

Tuberous Rooted Double Mixed. Large Camellia-flowered double type in mixture of colors. Tr. pks. only, \$1.50.

Rex Hybrids. Ornamental leaved mixture of Rex Begonias with many unusual variations. Very small seed and must not be covered. 500 seed packets, \$2.00.

BRACHYCOME

IBERIDIFOLIA. (Swan River Daisy). 140,000 S. 6 to 8 in. plants bearing small single flowers quite freely. Nice for edging.

Azure Fairy. Azure-blue, the most popular color.

Mixture of all colors in this class.

Prices on both of the above **Each:** Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

BROWALLIA

Viscosa Compacta Sapphire. 65,000 S. Compact growth with a profusion of small attractively light-eyed blue flowers. Fine for winter and spring pot plants, and for bedding with some shade. Tr. pkt., 35c; $\frac{1}{16}$ oz., \$1.00; $\frac{1}{8}$ oz., \$1.85.

CALCEOLARIA

(About 20,000 seeds per 1/32 oz.)

***Multiflora Nana Mixture.** (Ball Strain). Dwarf in growth with large compact heads of medium-sized flowers. This is our own carefully selected strain and contains many colors new in this class. Fine for shipping. Price: Tr. pkt., \$1.00; $\frac{1}{2}$ oz., \$2.35; $\frac{1}{4}$ oz., \$4.35; $\frac{1}{2}$ oz., \$8.00.

***Grandiflora Mixed.** Fairly strong growing with extra large flowers. Contains an extremely wide range of unusual colors. Price: Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.50; $\frac{1}{2}$ oz., \$4.50.

Dwarf Tigered and Spotted. Quite dwarf and compact with very full flower heads. Contains varying shades of reds and rosy bronzes. Price: Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.50; $\frac{1}{2}$ oz., \$4.50.

Triumph Strain. Large flowered vigorous growing strain in shades of bright red and yellow. Price: Tr. pkt., \$1.25; $\frac{1}{2}$ oz., \$2.25; $\frac{1}{4}$ oz., \$4.00.

CALLA

Elliottiana. 450 S. The yellow Calla Lily. Seed germinates readily but requires two years' growth to flower. Tr. pkt., 50c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.00.

CALLIOPSIS

90,000 S. Fairly dwarf and very free flowering bedding plants.

Golden Wave. (Drummondii). 12 in. Semi-double golden yellow flowers with dark eye. About 1 in. across. Tr. pkt., 15c; 1 oz., 40c.

Dazzler. 6 to 8 in. Bright combination of rich maroon edged with golden yellow. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 85c.

Dwarf Mixture. 6 to 8 in. Attractive dwarf compact mixture of red and yellow shades. Tr. pkt., 15c; 1 oz., 50c.

CAMPANULA (Annual)

Annual Canterbury Bells Mixture. 50,000 S. 2 ft. An annual form of the well-known perennial flowering 6 months from sowing. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 85c.

For **Perennial Campanulas**, see page 39.



This cut pictures three distinct classes of *Calceolarias*. On the right is the fairly tall, spotted *Tigrina*; the ever popular *Multiflora Nana* in the center, with a Dwarf Tigered *Grandiflora* on the left. Seed for these was sown early October, flowering in May.

CANDYTUFT 9500 S.

HYACINTH-FLOWERED

***Giant White.** (Ball Strain). This is our own unsurpassed strain that has been especially bred for greenhouse cut-flower use. Uniform in growth and large flowered. Tr. pkt., 20c; $\frac{1}{2}$ oz., 45c; 1 oz., 80c; 4 oz., \$2.65; 1 lb., \$8.50.

Miniature Gem. A nice very early flowering rock or border plant. Same as above but 4 in. high. White. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 85c.

UMBELLATA. A popular spring cut flower. Sow in January, plant out 8 x 10 in. The Starred (*) varieties we find best for market growing.

***Carmine Crimson** ***Flesh-Pink Lavender (Lilac)** ***Rose Cardinal White**
And our special **Formula Mixture** Each: Tr. pkt., 15c; 1 oz., 50c; 4 oz., \$1.25.

Dwarf Hybrids Mixture. An attractive 3 to 4 in. miniature of above. Very early. Tr. pkt., 15c; 1 oz., 60c.

For **Perennial Candytuft**, see *Iberis*, page 41.

CARNATION

14,000 S. From an early sowing planted outdoors, preferably under cloth protection, and disbudded, these strains, with the exception of Engelmann's, will produce a nice crop of summer Carnations for cutting. Some supporting necessary.

Engelmann's Gold Medal Mixture. (Perpetual Flowering). This is the type grown in greenhouses for winter flowering. Contains many original colors which may be propagated by cuttings. We handle only the originator's seed. Tr. pkt., \$1.00; $\frac{1}{2}$ oz., \$1.75; $\frac{1}{16}$ oz., \$3.25.

Marguerite Double Mixture. 15-20 in. Ours is a reselected strain of this very free flowering summer Carnation. An old favorite. Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

***CHABAUD'S GIANT IMPROVED STRAIN.** Our trials this summer favored this reselected type to all others for greater percentage of large fully double flowers and trueness to color.

* Cardinal Red (Sparkler)	Deep Salmon (Aurora)	* White (Jeanne Dionis)
Crimson (Blood Red)	* Flesh-Pink (Reine Rose)	Yellow (Marie Chabaud)
* Deep Rose (Rose Queen)	Salmon-Rose	Formula Mixture of all colors in this class.

Each: Tr. pkt., 35c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.25.

ENFANT DE NICE. A fine standard strain.

Red Salmon **White** **Formula Mixture**

Each: Tr. pkt., 50c; $\frac{1}{8}$ oz., \$2.00.

For the hardy **Carnation Grenadin**, see page 39.

For **Castor Bean**, see *Ricinus*, page 32.

MISCELLANEOUS ANNUALS—Continued

CELOSIA

28,000 S. The increasing popularity of this showy annual is explained by its ease of growth, making showy mass effects even in poor soil and hot climates. Many of the recent uniform dwarf types are also fine for use in borders or as spring pot plants. For outdoor work, seed may be sown direct as soon as warm weather sets in, or sown in pots earlier for transplanting.

***Spicata.** 5 ft. Long slender silvery rose spikes. Useful as a cut-flower or for drying. Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.

PLUMOSA. Plumed or featherly type producing spire-like branches mostly from base of plant. The new dwarf varieties are finding wide use both for bedding and as spring pot plants. The taller strains are very showy and may be used for cutting.

These two Feather varieties can be lifted to pots or transplanted from open ground when in full flower, much the same as hardy mums. This, of course, increases their value for decorative work.

***Dwarf Fiery Feather.** (*Pyramidalis*). 12 in. Very attractive pyramid formation with fiery red spires. The standard variety.

***Dwarf Golden Feather.** (*Pyramidalis*). 15 in. Same as above but slightly taller and golden yellow.

***Dwarf Feather Mixture.** A formula mixture of the above two varieties; $\frac{2}{3}$ Fiery Feather, $\frac{1}{3}$ Golden Feather. Each: Tr. pkt., 25c; $\frac{1}{8}$ oz., 65c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.00.

Flame of Fire. 14 in. A fine dwarf compact strain. More solidly compact than Fiery Feather and some later flowering. Must be started early. Tr. pkt., 35c; $\frac{1}{8}$ oz., 85c; $\frac{1}{4}$ oz., \$1.50.

***Scarlet Plume.** 4 ft. Brilliant crimson-scarlet. Very colorful for fall borders and for cutting. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

***Golden Plume.** Tall. Same as above except in color. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

***Thompsoni Magnifica.** Ours is a fine even strain of this popular variety with a complete color mixture. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

CRISTATA. The popular Cockscomb type. Fine for specimen pot work in spring. Also dries well.

***Empress.** (Dwarf). 12 in. Large crimson combs with deep reddish leaves.

***Golden Yellow.** (Dwarf). 12 in. Yellow combs with light green foliage.

Glasgow Prize. (Pres. Thiers). 12 to 15 in. Deep crimson combs set in bright green leaves.

***Dwarf Mixture.** 15 in. A choice mixture of all colors in this class with both light and dark foliage. Contains many unusual shades.

Prices on each above four varieties: Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.25.

***Royal Velvet.** An absolutely uniform strain of semi-tall "Cockscomb" Celosia. Crimson combs borne well above foliage on 24 to 30 in. stems. Reddish green foliage. Fine for cutting or decorative work. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.60.

Tall Mixture. 40 in. Mixture of all colors in the tall class. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 80c.

CHILDSII. Chinese Woolflower. An attractively different type with knobs or ball-like formations on the end of each branch. 80% true.

Crimson Mixture. Each: Tr. pkt., 20c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

CENTAUREA

Suaveolens. (Yellow Sweet Sultan). 6700 S. Similar to the Imperialis type but not quite as tall and earlier flowering. 18 in. high, thistle-like flowers, bright yellow. Forces well indoors. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 85c.

CYANUS. (Bachelor Button or Cornflower). 6500 S. Ours are the very finest, free flowering re-selected florists' strains. Useful for spring greenhouse flowering (responds well to electric light treatment) or can be flowered outdoors in June and July from a fall sowing.



New annual Chrysanthemum, Rainbow Mixture.
(see next page for description)

CENTAUREA, continued

***Blue Boy.** The standard market variety.

Black Boy. Rich deep maroon.

Red Boy. Deep carmine rose.

Pinkie. Very attractive rose pink.

Snow Man. Fine clear white.

Formula Mixture of above varieties.

Prices on all above varieties and mixture each: Tr. pkt., 15c; 1 oz., 45c; 4 oz., \$1.50; 1 lb. \$5.00.

Jubilee Gem. 12 to 15 in. Dwarf compact deep blue for bedding. Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.50.

IMPERIALIS. (Sweet Sultan). 7500 S. Thistle-like flowers, larger flowered than the Cyanus type.

Amaranth Red

Deep Lavender

Brilliant Rose **White**

Formula Mixture

Delicate Lilac

Each: Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

AMERICANA. 2400 S. Still larger than the Imperialis. Valuable for retail growers but doesn't stand shipping well.

Lilac, the preferred color.

White, and **Mixture** of the two colors. Each: Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

DUSTY MILLERS. The white-leaved kinds for border work. Cineraria Maritima Diamond also belongs in the Dusty Miller group.

Candidissima. 7500 S. 6 in. The slow growing kind that must be started early. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Gymnocarpa. 7300 S. 24 in. Heaviest and most rapid grower of the Dusty Millers. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

For the hardy **Centaurea Montana**, see page 39.

For **Chinese Forget-Me-Not**, see *Cynoglossum*, pages 25 and 26.

CHRYSANTHEMUM (Annual)

9000 S. A valuable cut flower "catch crop" that responds well to electric light forcing. Space at least 12 x 12 in. Germination somewhat slow and irregular.

Burridgeanum. (Carinatum). White with crimson zone and brown eye.

MISCELLANEOUS ANNUALS—Continued

CHrysanthemum, continued

***Northern Star.** (Carinatum). White with yellow zone, brown eye.
 ***Eldorado.** (Segetum). Golden-yellow with brown eye.
Gloria Alba. (Segetum). White with yellow zone and yellow eye.
Morning Star. (Segetum). Lemon with yellow zone, yellow eye.

Rainbow Mixture. (Carinatum). An outstandingly complete and brilliant mixture in this annual Chrysanthemum class. We recommend this Rainbow strain to the retail grower as a source of annual Chrysanthemums for spring cutting. Tr. pkt., 30c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Mixture of all colors in this annual cut flower type.

Each: Tr. pkt., 15c; 1 oz., 40c.

For **Hardy Chrysanthemum**, see page 39.

CINERARIA

An early January sowing, if kept growing right along, will make satisfactory 3 in. plants in late May for combination work, in our latitude. Sowings are made from June on for Christmas and later flowering.

***Sister's Rainbow Strain.** 3,500 seeds per $\frac{1}{32}$ oz. An excellent market strain with immense heads of medium large, mostly white eyed flowers and small foliage. Contains many striking colors. Price: Tr. pkt., \$2.00; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50; $\frac{1}{16}$ oz., \$8.00.

***Multiflora Nana Gold Center.** 6,300 seeds per $\frac{1}{32}$ oz. The attractive medium small self-colored flowers with yellow anthers, combined with large compact heads makes this a very popular variety. Good shipper. Price: Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.85; $\frac{1}{32}$ oz., \$3.50.

***Cremer's Prize Strain.** (Reselected stock). 6,300 seeds per $\frac{1}{32}$ oz. Continues to be the standard florists' strain. Composed principally of good reds and blues, with a fair proportion of other shades. About half-light-eyed. Price: Tr. pkt., \$1.50; $\frac{1}{64}$ oz., \$2.25; $\frac{1}{32}$ oz., \$4.00; $\frac{1}{16}$ oz., \$7.50. We furnish originator's seed in his packets at the above prices if requested.

***Berlin Market Mixed.** (Weisensee Strain). 3,500 seeds per $\frac{1}{32}$ oz. A fine market strain of medium large flowers produced on compact plants. Composed of good commercial colors: about 90% light eyed. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.25.

Grandiflora Dwarf Mixed. 3500 seeds per $\frac{1}{32}$ oz. Fairly large flowered dwarf growing strain composed mostly of white eyed sorts in a good color range. Price: Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.75; $\frac{1}{32}$ oz., \$3.00.

Grandiflora Azure Blue. 3500 seeds per $\frac{1}{32}$ oz. Medium flower size; fairly light blue. Price: Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$1.75.

No. 1 Mixture. Consists of Cremer's Prize Strain and Sister's Rainbow Strain in equal proportions. Price: Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.75.

No. 2 Mixture. Contains $\frac{1}{2}$ Cremer's Prize Strain and $\frac{1}{4}$ each Sister's Rainbow Strain and Multiflora Nana Mixed. Price: Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.00; $\frac{1}{32}$ oz., \$3.75.

Dwarf Giant Exhibition Mixture. Extra large (5 to 6 in.) flowers in a wide color range on fairly dwarf plants. For Exhibition work only. Tr. pkt., \$1.00.

Eriksson's Private Stock. The originators own Chicago market strain. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$3.00.

DUSTY MILLER

***Maritima Diamond.** 10 in. Our finest Dusty Miller. Compact even growth and very white foliage. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

CLARKIA

ELEGANS DOUBLE. 90,000 S. Popular for spring cut flower use. Sow in January and grow in shallow soil disbudding to 2 or 3 spikes for long stemmed flowers. Don't feed, and keep fairly dry after plants are about a foot high to prevent oversoft lanky growth.

Albatross. The best white. ***Brilliant.** Bright deep rose. Good market color.

***Enchantress.** Pleasing shade of salmon-pink. ***Orange King.** Excellent fully double orange-scarlet.



The new Cleome, "Pink Queen" is an improved variety of the old-fashioned "Spider Plant."

CLARKIA, continued

Mixture of all colors in this ***Salmon Queen.** Medium light class.

Each: Tr. pkt., 15c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.25.

CLEOME

***Pink Queen.** (Spider Plant). 12,000 S. A wonderfully attractive and extra large flowered strain of the old Spider Plant. Sown in March and transplanted to the open in early June, our outdoor trial of this the past summer was a continuous display of color from July until frost. Large heads (6 to 7 in. across) of newly opened luminous rosy pink flowers fading to a clear white as they mature give a distinct and pleasing bi-color effect. Makes a heavy hedge-like row about 4 ft. tall and 3 to 4 ft. across. Fine as a background against walls and fences or to hide unsightly spots and valuable to sell as young plants to home gardeners. Tr. pkt., 35c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

COBAEA

SCANDENS. 375 S. A fine, strong growing, annual climber. **Purple.** The preferred color.

WHITE.

Mixture of both colors. Prices on above, each: Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

COLEUS

3,500 seeds per $\frac{1}{32}$ oz. Although seedling coleus do not come true to any certain color type, their interesting and attractive variation of colors makes them of value in combination work as well as for specimen plants where no particular color type is required.

***Rainbow Mixture.** An excellent strain containing many choice colors.

Glory of Vichy. Somewhat more dwarf than the above. Prices on above two varieties, each: Tr. pkt., 50c.

MISCELLANEOUS ANNUALS—Continued

CONVOLVULUS (Morning Glory)

***Royal Ensign.** 2000 S. Belonging to the dwarf, compact growing Morning Glory family, this new variety fits in quite well for bedding or edging. Flowers of a deep ultra-marine blue with yellow zone and white throat—a really striking combination. Very free and continuous flowering and easily grown. Tr. pkt., 35c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

For other **Morning Glories**, see **Ipomoea** on page 28.

*CORAL FLOWER

Small bright carmine flowers, freely produced on 24 to 30 in. stems. Grown principally for the small deep coral seed capsules that are really more attractive than the flowers. Fine for filler work in bouquets and easily grown once the quite small seed is germinated. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.00; $\frac{1}{8}$ oz., \$1.75.

COSMOS

SENSATION. 5000 S. The most satisfactory class of Cosmos to grow for cut flower purposes. Extra large flowered and extremely early, making it suitable for growing outdoors even in northern climates. Our strains as listed below are very true to color.

***Pinkie.** Pink.

***Purity.** Extra large flowered pure white.

***Mixture** of above and other shades.

Prices on above, each: Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.15.

EXTRA EARLY EXPRESS. 5000 S. Flowers in 45 days from an outdoor sowing.

Pink. **Mixture** of all colors.

Each: Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 85c.

EARLY SINGLE MAMMOTH FLOWERED. 5000 S. Ours are re-selected strains in the standard large flowered class.

Crimson Queen **Rose Queen** **White Queen**

Queen Mixture of above colors.

Each: Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 85c.

EXTRA EARLY DOUBLE ANEMONE-FLOWERED OR CREST-ED. 5000 S. Produces around 60% large crested flowers.

Carnelia, crimson; **Peach Blossom**, pink; **Whirlwind**, white; **Mixture**.

Each: Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.60.

GIANT FLOWERING LADY LENOX. 5000 S. The extra large flowered late blooming class.

Pink **White** **Mixture**

Each: Tr. pkt., 15c; 1 oz., 50c.

HYBRIDA KLONDYKE. 2800 S.

***Yellow Flare** (New). A bright clear yellow that brings a brand new shade to this family. Similar to Orange Flare in its early and very free flowering habit, and vigorous bushy growth. Our trial this past summer was 100% true to color and type. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

Orange Flare. Very early and free flowering and a fine bright orange. Blooms same time as the Sensation type. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 85c.

***Orange Ruffles.** An attractive semi-double; the same bright orange as Orange Flare but even earlier flowering and slightly dwarfer. Blooms very profusely and is uniformly true to type. Tr. pkt., 15c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.25.

CUPHEA

Firefly. 7000 S. A very attractive spring pot plant that may be planted out for bedding and border work. Our trials of it the past two seasons from a March sowing reached a height of 12 in. and covered themselves with small bright scarlet flowers throughout the summer. Of dense compact growth. Tr. pkt., 25c; $\frac{1}{8}$ oz., 70c; $\frac{1}{4}$ oz., \$1.25.

CYCLAMEN

We have ample supplies of practically all of the following varieties. Prices shown below are net, no cash discount.

	100 Seeds	1000 Seeds	5000 Seeds
No. 1 Dark Blood-Red	\$1.75	\$16.00	\$70.00
No. 2 Bright Red	1.75	16.00	70.00



Cynoglossum Firmament, a fine dwarf garden plant.

CYCLAMEN, continued

No. 3 Pure Rose	\$1.75	\$16.00	\$70.00
No. 4 Soft Rose with carmine eye. (Improved Rose of Marienthal)	1.75	16.00	70.00
No. 5 White with carmine eye	1.75	16.00	70.00
No. 6 Pure White	1.75	16.00	70.00
No. 7 Bonfire . Brilliant salmon	2.25	20.00	90.00
No. 8 Salmon Scarlet (America Imp.)	2.30	21.00	95.00
No. 9 New Salmon-Rose Imp.	2.25	20.00	90.00
No. 10 Glory of Wandsbek (Perle of Zehlendorf). Dark salmon	2.20	18.00	80.00
No. 11 Rose of Zehlendorf . Light salmon	2.20	18.00	80.00
No. 14 Morning Red	2.20	18.00	80.00
No. 16 Saffron-Red, Silver Edge	2.25	20.00	90.00
No. 18 Mozart . Deep pink	2.30	21.00	95.00
No. 19 Lavender	1.75	16.00	70.00
No. 20 New Ruffled . Especially attractive class	2.30	21.00	95.00
No. 21 Pink Pearl . Salmon-pink	2.30	21.00	95.00
Mixture of above colors	1.65	15.00	65.00

VOGT'S DOUBLE STRAIN.

We handle only Mr. Vogt's seed of this attractive double type. **Mixture** of all colors. Priced at: 100 seeds, \$3.50; 250 seeds, \$7.00; 500 seeds, \$14.00; 1000 seeds, \$25.00.

CYNOGLOSSUM

AMABILE. (Chinese Forget-me-not). 5000 S.

Firmament. A very generally satisfactory, free flowering, compact Cynoglossum. 15 to 20 in. and flowers early and continuously. Of fine bushy, base-branching, yet compact habit. Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.25.

MISCELLANEOUS ANNUALS—Continued

CYNOGLOSSUM—Continued

***Blue Bird.** An improved strain, more strongly upright in habit than the following. A week to 10 days later flowering.

Tr. pkt., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

Blue. Tr. pkt., 15c; 1 oz., 50c.

Pink. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

DAHLBERG DAISY

An unusually attractive, compact edging plant with airy lace-like leaves. Produces a profusion of small yellow flowers continuously from late spring until frost. Forms a very even row, 6 to 8 in. high and 12 to 14 in. across. Germination somewhat irregular except in spring months.

Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25; $\frac{1}{4}$ oz., \$2.25; 1 oz., \$8.00.

DAHLIA

2800 S. Seedling strains are enjoying an ever increasing popularity as outdoor bedding stock, especially the dwarf Unwin and Coltness strains. Choice specimens may, of course, be tuber propagated. Flowers first season from an early sowing.

***Unwin's Dwarf Hybrids.** Our strain of this popular variety is especially re-selected for evenness of dwarf habit and a wide range of attractive colors in both double and semi-double forms. Seed sown during January will produce salable 3 to 4 in. flowering pot plants in May. Tr. pkt., 25c; $\frac{1}{4}$ oz., 70c; 1 oz., \$2.50; 4 oz., \$7.50.

COLTNESSEN STRAIN. 18 in. Single. Uniformly dwarf and true to color and quite free flowering.

Yellow Scarlet Gem Mixture of all colors.

Prices on the above each: Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.60.

For **Daisies**, see Felicia this page, Agathaea, page 20.

For **Perennial Daisies**, see page 39.

DELPHINIUM

CHINENSIS or Annual Delphinium. 20,000 seeds per oz. From a January sowing, makes a nice late spring cut flower crop.

***Cambridge Blue.** The standard Belladonna-blue variety.

Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.60.

Dark Blue

White Mixture

Prices on each above three: Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.25.

DIANTHUS 25,000 S.

Annual Sweet William. (D. barbata-sinensis). 12 in. Single mixed. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

***Sweet Wivelsfield Single Mixed.** 12 in. Probably the most popular of the annual Dianthus. Free flowering and brilliantly colored. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

Sweet Wivelsfield Double Mixed. Same as above but most flowers either semi or double. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

HEDDEWIGI. (Double Japanese Pinks). 10 in. Fine for rock garden and border work.

Fireball. Deep scarlet.

Pink Beauty. Blush-pink.

***Snowdrift.** Extra large flowered pure white.

Imperator Mixture of all colors in this double class.

***Lacinatus Splendens.** Single. Extra large brilliant crimson flowers with large contrasting white eye.

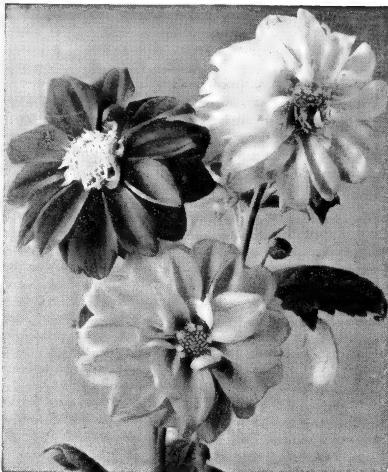
Prices on all the above, each: Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.25.

For **Hardy Dianthus**, including Latifolius Atroc., see page 40.

DIDISCUS

Coeruleus. (Blue Lace Flower). 10,000 S. Freely produces small (1½ to 2 in.) heads of light bluish lavender flowers. Useful for spring forcing or outdoors in cool climates.

Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.



Dahlia, Unwin's Dwarf Hybrids. A fall sowing will produce fine tubers for following spring.

DIMORPHOTHECA

Aurantiaca Hybrids Mixed. 9500 S. 6 to 10 in. 2 in. single daisy-like flowers in bright yellow, buff and orange shades. Tr. pkt., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

DRACAENA

Indivisa. 1500 S. The narrow-leaved and most popular variety. Tr. pkt., 15c; 1 oz., 50c; 4 oz., \$1.50; 1 lb., \$5.00.

Australis. 1000 S. The broader-leaved kind. Tr. pkt., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

For **Dusty Miller**, see Cineraria page 24 and Centaurea, page 23.

ECHIUM

Blue Bedder. 6500 S. 12 in. Very early blooming annual producing tiny bell-shaped blue flowers throughout the summer until frost. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

ESCHOLTZIA

Aurantiaca. 20,000 S. 1 ft. The true California Poppy. Rich orange. Tr. pkt., 15c; 1 oz., 50c.

For **Bush Escholtzia**, see Hunnemannia, page 27.

EUPHORBIA

Variegata. 2500 S. The popular Snow-on-the-Mountain. Tr. pkt., 15c; 1 oz., 50c.

Heterophylla. (Annual Poinsettia or Mexican Fire Plant). 5000 S. 36 in. Makes solid green hedge with small Poinsettia-like formations at tips of branches. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

For the **Hardy Euphorbias**, see page 40.

FELICIA

Bergeriana. 150,000 S. (King Fisher Daisy). The dwarf blue daisy for pot and conservatory work. 6 in. Germination apt to be slow and irregular. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00.

For **Forget-Me-Nots**, see Cynoglossum, page 25 and Myosotis, page 29.

GAILLARDIA

PICTA. 14,000 S. Annual Gaillardia. Fine free flowering brightly colored material for beds or borders.

***Indian Chief.** 12 to 15 in. An even and very free flowering single strain with solid red flowers.

Lorenziana Double Mixed. 12 in. Quite attractive and free flowering double strain of orange, yellow, red, and rose shades. The above two varieties priced at, each: Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 85c.

For **Perennial Gaillardia**, see page 40.

MISCELLANEOUS ANNUALS—Continued

GERBERA

Jamesoni Hybrids. A long lasting popular and valuable greenhouse forcing crop. Our seed is harvested several times a year from California, enabling us to furnish fresh seed at all times. 100 seeds, 40c; 500 seeds, \$1.75; 1000 seeds, \$3.00.

GILIA

Capitata. (Blue Thimble Flower). 100,000 S. 24 in. Ball shaped blue flowers. Attractive feathered foliage.
Tr. pkt., 15c; 1 oz., 50c.

GLOXINIA

Panzer Strain. A lot of strong selling points are combined in this extra fine Pacific coast strain. The fact that it was originated and is grown by one of the leading Pacific coast pot plant growers proves its value. Most valuable point is its brilliant velvety red color; this alone sells it in quantity. Next is its extra dwarf compact habit. Sow in December or January for 4 in. pot plants that will flower in June or July. While we are free to supply this variety to growers everywhere, we are exclusive agents for it east of the Rocky mountains. Price: Tr. pkt., \$1.00; 6 pkts., \$5.00.

Hetherset Hybrids Mixed. Erecta. 25,000 S. per $\frac{1}{32}$ oz. An erect growing mixture of varied and attractive colors. Sown in Jan. and given plenty of moisture while growing with protection from direct sun, good sized flowering specimens can be had by midsummer. Very fine seed that must be carefully watched. Tr. pkt., \$1.00; $\frac{1}{64}$ oz., \$2.75.

GODETIA

45,000 S. Should be grown in flats or shallow benches for greenhouse culture. Handle about like Clarkia; plant close and keep on dry side without feed to harden growth into flower.

UPRIGHT SINGLE. This class is especially attractive and much grown in Pacific Coast greenhouses for cut flowers.

Duke of York. Bright carmine and white.

Kelvedon Glory. Rich apricot; somewhat smaller flowered than above.

Purity. A clear white.

Prices on the above varieties, each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

TALL DOUBLE GRANDIFLORA.

Carminea Improved. Pink with crimson blotched center.

Cherry Red. Deep red center, margined pink.

Lavender.

Rich Pink. Clear deep pink.

White. Slightly tinted.

Mixture of colors in the Tall Double class.

Prices on the above varieties and Mixture, each: Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 85c.

DWARF DOUBLE AZALEA FLOWERED.

Sybil Sherwood. 18 in. Bright salmon-pink, edged white. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

GOMPHRENA (Globe Amaranth)

5500 S. An attractive everlasting garden flower with some value for cutting. A fine bedder for hot, dry climates.

Aurea Superba. Large flowered orange. Needs support for straight stemmed cut flowers.

GLOBOSA. Round, ball-shaped flowers.

Rubra. 30 in. Magenta Purple. A bright deep shade.

Mixture of colors.

Prices on the above varieties and Mixture, each: Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

ORNAMENTAL GOURD

Easily grown; when properly dried and varnished, last indefinitely. We'll be glad to send you a circular written by Louis La Montagne of Woburn, Mass., outlining his practical method of growing the fine exhibition Gourds for which he is famous. Ask for it when you order.

***La Montagne Strain.** 475 S. The finest selected strain of mixed Gourds we have tried. We handle originator's seed. Tr. pkt., 35c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

SMALL VARIETIES. 450 S.

Small Bottle. Greenish white, about the shape of a small bottle. 2 to 4 in. high and 1 to 2 in. thru.

Orange. About color and shape of an orange. 2 in. in diameter.

Pear. Striped alternately with green and yellow bands with some white markings. About 2 in. high and 1 in. thru.

Spoon. More or less spoon-shaped. Orange and white striped. 4 to 6 in. long by 1 in. wide.

Warted Types Mixed. Not over 4 in. in diameter. A novel and attractive mixture.

Prices on above varieties and mixture EACH Tr. pkt., 15c; 1 oz., 50c.

GREVILLEA

Robusta. (Australian Silk Oak). 3000 S. Seed sown in early spring and grown in 60 deg. house will make nice 5 in. pot specimens by fall. Give bottom heat and a well drained soil. Valuable for combinations. Because it holds its foliage well, is being used with Poinsettias instead of Asparagus.

Tr. pkt., 20c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.25.

GYPSOPHILA

ELEGANS. (Baby's Breath). 24,000 S. We offer with confidence the following strains as the most uniform available. Altho the larger flowered varieties are attractive and fine, the smaller flowered ones outlast them for bouquet work.

***Covent Garden Market.** A very excellent strain with large and full-petaled flowers, about 75% of which have 6 to 8 petals. 1 oz., 25c; 4 ozs., 75c; 1 lb., \$2.25; 5 lbs., \$8.50.

***Paris Market.** Smaller flowered than the above stock. Holds up well when cut. 1 oz., 20c; 4 ozs., 55c; 1 lb., \$1.75; 5 lbs., \$7.00.

Carminea. Same as Paris Market except a bright carmine pink. Tr. pkt., 15c; 1 oz., 50c.

Crimson. Darker selection of the above. Tr. pkt., 15c; 1 oz., 50c. For Hardy *Gypsophila* see page 40.

HELIANTHUS (Sunflower) 650 S.

***Sungold.** Of uniform medium height (4 to 5 ft.), with practically 100% fully double yellow flowers. Considerably improves the following. Tr. pkt., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

Dwarf Chrysanthemum-Flowered. 40 in. Good proportion fully double yellow Sunflowers. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

HELICHRYSUM

MONSTROSUM. 36,000 S. The most popular double strawflower. Widely used for drying.

Canary-Yellow **Crimson** **Fireball (Scarlet)**

Golden Globe **Rose Queen**

Formula Mixture Each: Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

HELIOTROPE 50,000 S.

***Dwarf Regale Mixture.** 15 in. A fine even clear colored strain with extra large flower heads. Richly fragrant. Tr. pkt., 35c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.25.

Lemoine's Giant Mixture. 24 to 30 in. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

HOLLYHOCK (Annual)

Indian Spring. 13,000 S. 4 to 5 ft. Starts to bloom 5 months from seed sowing and continues until frost. Semi-double light pink and rose flowers are borne mostly on central spike. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

HUNNEMANNIA

FUMARIAEFOLIA. 8000 S. (Bush Escholtzia).

***Sunlite.** Brilliant Canary-yellow, semi-double. Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.65.

Single Yellow. Tr. pkt., 15c; 1 oz., 60c.

For Hardy *Iberis*, see page 41 and Candytuft on page 22.

MISCELLANEOUS ANNUALS—Continued

IMPATIENS

Dwarf Mixture. A mixture of colors in the dwarfer types. Tr. pkts. only, 75c.

IPOMOEA (Moonflower or Morning Glory)

The 3 varieties immediately following, constitute the finest types for carrying out today's popular red, white and blue color scheme.

***Pearly Gates.** A fine early flowering clear white Morning Glory with slight cream shading in throat. Similar to the popular Heavenly Blue in habit but not quite as early flowering. Tr. pkt., 35c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75; 4 oz., \$6.00.

***Heavenly Blue.** 800 S. Clark's Mammoth Early Free Flowering Strain. The popular sky blue shade that is solid sheet of vivid color all summer. Can be forced into flower for spring sales in 3 or 4 in. pots from a sowing made 8 to 10 weeks previously. Tr. pkt., 20c; 1 oz., 65c; 4 ozs., \$2.00.

***Cornell.** A large flowered bright Carnelian red with white edge. Fine strong grower and fairly early flowering. Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.50.

White Magic. A very fine cream-throated white. Quite similar to Pearly Gates in our trials but may show differences in other localities. Tr. pkt., 35c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75; 4 ozs., \$6.00.

Large Flowered Imperial Morning Glory. Extra large fringed flowers in bright shades of rose, pink and cerise; good climbing habit. Tr. pkt., 20c; 1 oz., 60c.

Crimson Rambler. Bright carmine-red with attractive white center. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

Scarlett O'Hara. 650 S. Large flowered, brilliant carmine-red variety. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.50.

Rose Marie. 1100 S. Double deep rose. Quite free and early flowering. Tr. pkt., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

Quamoclit (Cardinal Climber). 1000 S. Brilliant red flowers freely produced. An attractive annual climber. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

NOCTIFLORA. 110 S. Large flowered white.

Black-Seeded White-Seeded

Each: Tr. pkt., 15c; 1 oz., 40c.

For other **Morning Glory**, see *Convolvulus*, page 25.

KALANCHOE

***Tom Thumb.** A dwarf compact strain of this popular succulent. Produces perfectly rounded symmetrical plants literally covered with bright scarlet flowers. A Jan. or Feb. sowing will provide fine 4 in. specimens for next winter's sales while later sowings will make fine 2½ in. material for combinations. We feel sure that this item should not be overlooked. Tr. pkt., \$1.25; $\frac{1}{4}$ oz., \$5.00; $\frac{1}{2}$ oz., \$9.00.

Globulifera Coccinea. The original rather tall growing Kalanchoe. Should be handled the same as the above variety but its stronger growth will produce larger plants. Flower for Xmas from a Jan. sowing by shading with black cloth from Aug. 15 to Sept. 15. Tr. pkt., 60c; 3 Tr. pkts., \$1.35; $\frac{1}{4}$ oz., \$1.60.

KOCKIA (Summer Cypress) 45,000 S.

Childsii. 24 in. Stays a clean fresh green thruout the entire season. Very attractive dense bushes. Tr. pkt., 10c; 1 oz., 25c.

LANTANA 1300 S.

Dwarf Hybrids Mixed. 12 in. Must be sown early and with bottom heat. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

For **Larkspur Varieties**, see page 19.

LAVATERA

Loveliness. 4500 S. (*Splendens*). Very attractive early flowering annual, with 2 in. Hollyhock-like single flowers of a deep salmon rose shade. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.



A very graphic explanation of the insistent demand for the new *Kalanchoe Tom Thumb* (left). Identical in foliage and flower to the regular *K. globulifera coccinea*, its dwarf and compact habit make it an outstanding improvement. Grown in 4 in. pots.

LEPTOSYNE

Maritima. 10,000 S. 18 to 24 in. Large Marguerite-yellow flowers.

Stillmanii. 25,000 S. 18 in. Nice golden yellow for cutting. Flowers 6 to 8 weeks from seed.

Prices on the above two varieties each: Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

LINARIA

MAROCANNA. (Miniature Snapdragon).

Fairy Bouquet. 60,000 S. 10 in. Flowers very early and freely. Bright mixture of colors.

Tr. pkt., 20c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.50.

LISIANTHUS

Russelianus. Violet-blue tulip-like flowers on plants 10 to 12 in. high with an upright and compact, free flowering habit, are important attributes of this useful plant. Tr. pkt., 50c.

LOBELIA

700,000 S. Where protection from direct sun can be given them and in not too hot climates, Lobelia are unsurpassed for bright blue and white edging, hanging and trailing work. All varieties come quite true.

COMPACTA. 6 in. Of dwarf compact habit.

***Blue Gown.** Standard free flowering deep blue. Very fine. Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

Blue Stone. Deep blue, nearly same as above.

Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c.

Cambridge Blue. Very dwarf, restricted light blue.

Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

***Crystal Palace.** Very dwarf deep blue with dark bronzy green foliage. A fine standard variety.

Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Emperor William. Deep blue with light green foliage.

Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

***Mrs. Clibran Imp.** Deep blue with contrasting white eye and light foliage. Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

***Opal.** Altho slightly stronger growing than other compact varieties, Opal is much freer flowering. Light blue with contrasting white eye. Tr. pkt., 35c.

Mixture of all colors in the compacta class.

Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

MISCELLANEOUS ANNUALS—Continued

LOBELIA—Continued

PENDULA. Of trailing or pendulous habit.

*Hamburgia. Deep blue with dark green foliage.

Tr. pkt., only, 35c.

Sapphire. Deep blue with white eye. Light green foliage.

Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00.

For Perennial Lobelia, see page 41.

For Love Apple, see Solanum, page 34.

LUPINE

A good spring crop of the annual type can be flowered in 3 in. pots from a Jan. sowing spaced close so as to flower one spike to a plant. We prefer the Giant Kings.

*GIANT KING. 1300 S. Some longer stemmed and earlier flowering than the regular Hartwegis.

*Oxford Blue. Standard rich deep blue. Sky Blue.

Heliotrope. A pleasing rosy purple shade. White.

Mixture of above colors.

Each: Tr. pkt., 20c; 1 oz., 60c; 4 ozs., \$1.75.

HARTWEGI. 1400 S. The standard cut flower strain.

Dark Blue, Roseus, Sky Blue, White, Mixture

Each: Tr. pkt., 15c; 1 oz., 50c; 4 ozs., \$1.50.

YELLOW VARIETIES

Luteus Romulus. 300 S. Dwarf richly fragrant yellow. 15 in. Tr. pkt., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

Suphureus Superbus. 600 S. 24 to 30 in. Yellow for cutting. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c.

For Perennial Lupine Polyphyllus, see page 41.

For Marigolds, see pages 12 and 13.

MARVEL OF PERU

(Mirabilis Jalapa). 325 S. Fairly tall growing mixture of old-fashioned "Four O'Clocks." Bright and varied colors. Tr. pkt., 15c; 1 oz., 40c.

MECONOPSIS BAILEYI

A blue poppy from the Himalayan Mts. Requires at least partial shade and a cool climate.

Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.25.

MIGNONETTE

27,000 S. May be sown in January for spring cutting, altho a fall sowing is better.

*Ball Strain. Considerably whiter and 2 to 3 weeks earlier than New York Market.

$\frac{1}{2}$ Tr. pkt., 60c; Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$1.75.

New York Market. A standard cut flower strain.

Tr. pkt., 75c; $\frac{1}{4}$ oz., \$1.50.

MACHET. For summer bedding.

Golden Goliath, Goliath Red

Each: Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

MYOSOTIS (Forget-me-not)

*Ball Early. 44,000 S. Free flowering, spring blooming plants of this always popular bright blue flower can be had from a sowing made as late as Jan. Our early flowering strain should not be confused with the other types listed with the perennials. Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

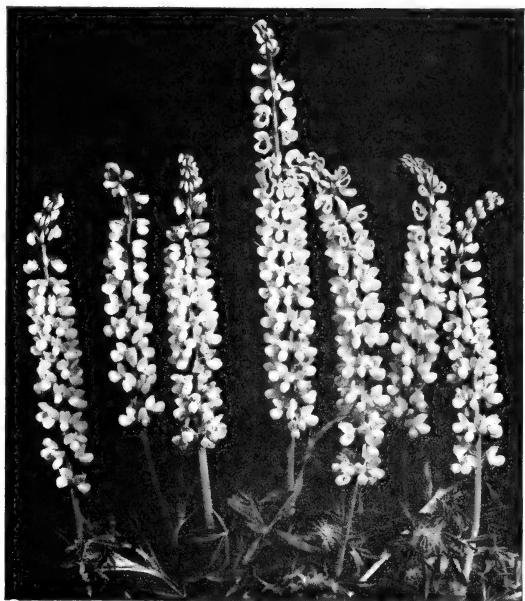
For other Myosotis, see perennial list, page 42.

NASTURTIUM

Brilliant colors, free flowering habit, and good stems are reasons why the Double Sweet Scented class has been so generally accepted by the home gardener as well as the florist who shouldn't be without them in the spring for combinations, window boxes, and cutting. DOUBLE GLEAM TYPE. 175 S. Of trailing or climbing habit. Vigorous growers; fine for cutting or window boxes.

*Golden Gleam. The original Gleam Nasturtium; golden yellow.

*Scarlet Gleam. Same as above but a brilliant scarlet.



Showing spikes of the new Giant King class of annual Lupine—the class to stay by for greenhouse cutting.

Moon Gleam. Light golden cream.

Salmon Gleam. Delicate golden-salmon.

Indian Chief. Brilliant scarlet, dark foliage.

Orange Gleam. Deep glowing orange.

*Gleam Hybrids. A brilliant mixture of all double varieties. Prices on all the above varieties: 1 oz., 20c; 4 ozs., 60c; 1 lb., \$1.75.

DWARF DOUBLE TYPE. 175 S. Fully as double and large as the Gleam type, the following varieties are of a very attractive dwarf compact, rounded growth. 12 to 15 in. high.

*Golden Globe. Same color as Golden Gleam.

Scarlet Gem. Brilliant scarlet.

Mixture of all colors in this dwarf class.

Prices on all the above varieties, each: 1 oz., 20c; 4 ozs., 65c; 1 lb., \$2.00.

SINGLE VARIETIES. 225 S.

Dwarf Mixture of all colors in the dwarf class.

California Giant Single Mixture of colors in the tall, trailing class.

Prices on the above varieties, each: 1 oz., 10c; 4 ozs., 35c; 1 lb., \$1.25.

NEMESIA (Strumosa Suttoni) 90,000 S.

GRANDIFLORA. Large flowered and long-stemmed. 14 to 16 in. Fine for spring cutting and combination work. Varieties come quite true and are used for greenhouse forcing.

*Blue. A standard color.

*Orange. A bright orange.

Mixture of all colors in this tall class.

Prices on the above varieties and mixture: Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

NANA COMPACTA. Of more dwarf habit, 6 to 8 in. Branches freely from the base, making attractive rounded specimens. Excellent for pots and short combination work.

Aurora. Attractive carmine-crimson with white.

*Blue Gem Imp. An extra compact light blue.

MISCELLANEOUS ANNUALS—Continued

NEMESIA—Continued

Fire King. Scarlet.

Orange Prince. A rich bright color.

Prices on above each: Tr. pkt., 25c; $\frac{1}{8}$ oz., 50c; $\frac{1}{4}$ oz., 90c.

***Triumph Mixed.** A very attractive dwarf mixture with a wide range of well balanced colors. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

NICOTIANA (Flowering Tobacco)

275,000 S. Sweet scented.

***Snuaveolens.** 18 in. A dwarf and compact small flowered white. Tr. pkt., 25c; $\frac{1}{16}$ oz., 85c.

AFFINIS

White. 36 in. Tall and large flowered.

Tr. pkt., 15c; 1 oz., 60c.

***Crimson Bedder.** 15 in. Makes a very compact growth and very free flowering. Deep crimson red.

Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Hybrids Mixture. A hybrid mixture of many shades in the tall large flowered type. Tr. pkt., 15c; 1 oz., 60c.

NIEREMBERGIA 5,500 S. per 1/32 oz.

***Purple Robe.** In depth and richness of color this striking bluish-lilac variety represents a great improvement over the original N. Hippomanica (Coerulea) listed below. Retains its brilliance without fading under strong summer sun and is uniformly dwarf and compact in habit. Combined with many of the marigold varieties, an unusually brilliant and attractive bedding effect can be had. Tr. pkt., 50c; $\frac{1}{32}$ oz., \$1.65; $\frac{1}{16}$ oz., \$3.00.

Hippomanica (Coerulea). Continues one of the outstanding additions to the bedding plant list in recent years. Very free flowering; does well in slight shade as well as open sun; growth is uniformly dwarf and compact (5 to 6 in.). Bright lavender-blue color, deepening some in slight shade.

Tr. pkt., 50c; $\frac{1}{2}$ oz., \$1.50; $\frac{1}{16}$ oz., \$2.75.

NIGELLA (Damascena Double) 11,000 S.

Miss Jekyll (Love-in-a-Mist). Cornflower-blue.

Mixture contains shades of light and dark blue and white.

Each: Tr. pkt., 15c; 1 oz., 60c.

For **Ornamental Pepper**, see Solanum, page 34.

PANSIES 25,000 S.

A January sowing of both Pansies and Violas will make nice small flowering plants to sell out of flats or in made-up pans in late spring and early summer. All the following varieties are available from tested 1942 crop and ready for immediate delivery.

***Ball Giant Mixture.** Our well-known, excellent all-purpose mixture. This mixture is based on the best Roggli Giants we have been able to find. To it are added Swiss blue, Coronation gold, and Swiss white in proportions to give the necessary balance of all colors. Our best all-purpose mixture. Tr. pkt., 40c; $\frac{1}{4}$ oz., \$2.00; $\frac{1}{2}$ oz., \$3.50; 1 oz., \$6.00; 4 ozs., \$22.00.

Ball Giant Mixture Dwarf Strain. Distinctly dwarf and full of attractive Roggli colors. A choice dwarf mixture. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$2.00; $\frac{1}{2}$ oz., \$3.50; 1 oz., \$6.00; 4 ozs., \$21.00.

Roggli Giant Mixture. A fine bedding strain with mixture predominating in rich red and bronze shades. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$2.25; $\frac{1}{2}$ oz., \$3.75; 1 oz., \$6.50.

We also supply originator's seed in his packages as follows: Tr. pkt., \$1.10; $\frac{1}{8}$ oz., \$2.35; $\frac{1}{4}$ oz., \$4.65; $\frac{1}{2}$ oz., \$6.50; 1 oz., \$12.75.

***Ball Winter Flowering.** Our own carefully re-selected strain of this increasingly popular cut-flower pansy. We have greatly improved the original stock in flower size and color range and with good growing conditions, stems as long as Sweet Peas can be had. Growth must be supported. $\frac{1}{2}$ Tr. pkt., 60c; Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.50.



The visitors shown above are inspecting our extensive annual Pansy trials. All fine strains available are lined up here for comparison.

PANSIES—Continued

Geneva Giants. A fine domestic Swiss strain. Outstanding in our trials for rich colors. Tr. pkt., 75c; $\frac{1}{4}$ oz., \$2.50; 1 oz., \$8.50.

Dwarf Geneva Giants. Similar to regular Geneva Giants (above) but even more uniformly compact in habit. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25; $\frac{1}{4}$ oz., \$2.25; 1 oz., \$8.00.

Englemann Giant Mixture. A splendid mixture of real Giants in full range of good Pansy colors. In size and colors, quite outstanding. We offer the originator's seed. Tr. pkt., 75c; $\frac{1}{4}$ oz., \$3.00; $\frac{1}{2}$ oz., \$5.50; 1 oz., \$10.00.

***Maple Leaf Giants.** Extra large flowered mixture of Giants. Good stems and extra heavy growth. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$2.50; $\frac{1}{2}$ oz., \$4.50; 1 oz., \$8.00.

***Canadian Giants.** A select Canadian stock of Maple Leaf Giants which it improves some in size. Tr. pkt., 75c; $\frac{1}{8}$ oz., \$1.30; $\frac{1}{4}$ oz., \$2.50; 1 oz., \$9.00.

Steele's Jumbo Mixture. Extra large flowered strain of Giants; strong growth and long stems. We offer originator's seed only. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.75; $\frac{1}{2}$ oz., \$7.25; 1 oz., \$14.00.

Improved Swiss Giants. Choice colors combine with nice size and stem to make this well-known strain excellent for all purposes. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$2.00; 1 oz., \$7.00.

Donovan's Strain. As it checks out in our trials, this is a compact, fairly large flowered strain of attractive colors. A popular strain for bedding. We supply originator's seed only. Tr. pkt., 75c; $\frac{1}{4}$ oz., \$3.00; 1 oz., \$10.00.

Lake of Thun. Fairly deep blue with dark center. Tr. pkt., 75c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$10.00.

***Coronation Gold.** The best true golden yellow. Tr. pkt., 75c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.75; 1 oz., \$10.00.

PENTSTEMON (Beard Tongue) 55,000 S.

Sensation Mixture. Tr. pkt., 35c; $\frac{1}{4}$ oz., 80c.

PHLOX DRUMMONDI (Annual)

14,000 S. Wonderfully brilliant and showy hues that remain a sheet of color throughout the entire summer make this popular annual an item that should not be overlooked by florists who do a bedding plant business.

MISCELLANEOUS ANNUALS—Continued

PHLOX—Continued

GIGANTEA. A comparatively new type in tall Phlox. Flowers 50% larger than other types. Strong growing and free flowering.

***Red Glory.** A bright scarlet red with large contrasting white eye. A valuable addition to the large-flowered Gigantea Class.

Rosy Morn. A particularly bright, clear rose pink with large white eye.

Salmon Glory. Rich soft salmon-rose with creamy white eye.

Prices on the above three varieties, each: Tr. pkt., 35c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.25.

Art Shades Mixture. Large flowered mixture of pastel shades with white eyes. Tr. pkt., 30c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.85.

GRANDIFLORA. 15 to 18 in. Fine free flowering bedding and border material. Also fine for cutting.

***Chamois Rose.** A nice soft pastel chamois with deep center.

***Cinnabar.** Brick-red with dark eye.

Coccinea. Fiery red.

Isabellina. Creamy yellow.

Leopoldii. Fairly deep rose with white center and dark eye.

Lilac. With white eye. A pleasing shade.

***Rosea.** Medium rose-pink with dark center.

Vermilion. A deep red shade.

Violet.

***White.** A clear white.

Cuspidata Mixture (Star of Quedlinburg). A bright mixture in this novel star-shaped type.

Special Mixture of all colors in this tall class.

Each: Tr. pkt., 30c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.85.

NANA COMPACTA. 6 to 8 in. Of dwarf compact growth, fine for low bedding and border work.

***Fireball.** Really fiery crimson.

***Snowball.** Good clear white.

***Cecily Mixed.** A very popular semi-dwarf mixture. Very even.

Mixture of all colors in this dwarf class.

Prices on the above Nana Compacta varieties and mixtures, each:

Tr. pkt., 35c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.25.

For **Pinks**, see Dianthus, page 40.

POPPY

ICELAND (P. Nudicaule). 250,000 S. The standard type for greenhouse spring forcing. Sow either direct or in pots and transplant. Best cut flower strains starred (*).

***The Emperor.** Brilliant orange. Fine flower size and long stiff stems.

***The Empress.** Same as above but in salmon-rose shades.

Each above two varieties: Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c.

***Sandford's Giants.** A fine standard Hybrid strain for greenhouse forcing. Brilliant color mixture. Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

***Giant Coonara** (Unwin's). Extra large flowers on long stiff stems. Bright mixture of delicate Poppy shades.

Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

SHIRLEY (P. Rhoeas). 70,000 S.

***American Legion.** Single orange-scarlet.

Sweet Briar (Double Begonia-flowered). Very nice deep rose-pink.

Formula Mixture of all colors in the Shirley class.

Prices on the above two varieties and mixture. Each: Tr. pkt., 15c; 1 oz., 50c.

For **Oriental Poppies**, see perennial list page 42.

PORTULACA

280,000 S. Very excellent easily grown outdoor bedding plant. Will flower 30 to 45 days from sowing in late spring or early summer.

Single Mixture. Tr. pkt., 20c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

***Double Mixture.** Special mixture of brilliant colors. Produces 85 to 90% true double flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.



Baby Rose—Bright rose color and dwarf habit.

PRIMULAS

Primula Kewensis. Deep yellow winter flowering pot plant. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.25.

CHINESE PRIMULA. 18,000 S. This is a popular class with many retail growers but wholesale growers find they shatter some when much handling or shipping is necessary. A May or early June sowing will produce strong 5 in. pot plants for Christmas. Doesn't usually germinate over 40 to 50% dependably.

***Dazzler.** Vivid orange. An outstanding color and the most popular variety. Tr. pks. only, \$1.00.

***Special Mixture.** Carefully balanced mixture of all colors in the Chinese class. Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.25; $\frac{1}{2}$ oz., \$4.00.

PRIMULA OBCONICA. 4000 seeds per $\frac{1}{2}$ oz. The most showy of all pot plant Primulas. In spite of skin irritation produced on some people, demand for Obconicas actually is increasing.

***Fasbender's Red.** An outstandingly fine extra large flowered deep crimson red. Grown and selected by ourselves for complete uniformity and trueness to type.

Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.25; $\frac{1}{2}$ oz., \$4.25.

Wyaston Wonder. (new) We offer a special selection of this famous English variety. Described by the originator as extra large flowered with a very vigorous and robust growth with compact habit. Color a bright crimson. Tr. pks. only \$1.00.

***Mueller's Berlin Rose** (Mueller's Rosea). Best of the light rose class.

Lachrosa. A salmon rose shade.

White.

***Formula Mixture** of above varieties proportioned according to their commercial value.

All above including Formula Mixture priced:

Tr. pkt., \$1.00; $\frac{1}{4}$ oz., \$2.25; $\frac{1}{2}$ oz., \$4.25.

All the above obconica seed supplied in sealed glass tubes.

MISCELLANEOUS ANNUALS—Continued**PRIMULA—Continued**

PRIMULA MALACOIDES. 12,000 seeds per $\frac{1}{32}$ oz. The most popular and easily grown of all pot plant Primulas. A January sowing can be developed into nice small pot plants for spring combinations. Seed of all the following varieties is available from 1942 crop in Mr. Eriksson's own packets. In addition several of the varieties can be had from our own growing as will be noted below.

Eriksson's New Red. Mr. Eriksson's latest addition to the Malacoides class. A very unusual salmon-red combination. Quite striking. Originator's seed only: 500 seeds, \$1.00; 2000 seeds, \$3.00.

Eriksson's New Giant. Light salmon-rose; late bloomer, heavy stems and large flower. Originator's seed only: 500 seeds, \$1.00; 2000 seeds, \$3.00; 6000 seeds, \$8.00.

Eriksson's Pure White Imp. Free-flowering; best white. Originator's seed only: 800 seeds, \$1.00; 2000 seeds, \$2.00; 6000 seeds, \$5.00.

Lilac Beauty. Soft lilac, blends well with other colors. Originator's seed only: 500 seeds, \$1.00; 2000 seeds, \$3.00.

Peach Blossom. Deep peach blossom pink. Originator's seed only: 500 seeds, \$1.00; 2000 seeds, \$3.00.

Apple Blossom. True apple blossom or light pink. Originator's seed only: 800 seeds, \$1.00; 2000 seeds, \$2.00.

New Baby Improved. Glowing deep pink. Fine flowers and stems. Originator's seed only: 800 seeds \$1.00; 2000 seeds, \$2.00.

Wonder Baby. A beautiful lavender pink. Originator's seed only: 800 seeds, \$1.00; 2000 seeds, \$2.00.

Eriksson's Special Mixed. Some of all the originator's varieties. Originator's seed only: 800 seeds, \$1.00; 2000 seeds, \$2.00; 6000 seeds, \$5.00.

WE OFFER THE FOLLOWING FROM OUR OWN GROWING AS WELL AS ORIGINATORS:

Glory of Riverside. Strong growing salmon rose. Finest in this color class. Tr. ptk., \$1.00; $\frac{1}{64}$ oz., \$2.50.

Originator's Seed priced at: 500 seeds, \$1.00; 2000 seeds, \$3.00; 6000 seeds, \$8.00.

Riverside Red Rose. A deeper colored Glory of Riverside. Rich bright shade. Tr. ptk., \$1.00; $\frac{1}{64}$ oz., \$2.50.

Originator's seed priced at 500 seeds, \$1.00; 2000 seeds, \$3.00.

Eriksson's White Giant. Extra large flowered pure white; heavy stems. Tr. ptk., only \$1.00.

Originator's seed priced at: 500 seeds, \$1.00; 2000 seeds, \$3.00; 6000 seeds, \$8.00.

Brilliancy. Flowers open lavender—turn to red. Tr. ptk., only, \$1.00.

Originator's seed priced at: 500 seeds, \$1.00; 2000 seeds, \$2.00; 6000 seeds, \$5.00.

Baby Rose. Bright orchid rose; compact habit. Tr. ptk., \$1.00; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

Originator's seed priced at: 800 seeds, \$1.00; 2000 seeds, \$2.00; 6000 seeds, \$5.00.

THE TWO FOLLOWING OUR OWN GROWING ONLY:

Baby Alba. Free flowering white. Tr. ptk., \$1.00; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

Mixture. A balanced formula mixture of our own growing. Tr. ptk., \$1.00; $\frac{1}{64}$ oz., \$2.50; $\frac{1}{32}$ oz., \$4.50.

For Hardy Primulas, see page 42.

QUEEN ANNE'S LACE FLOWER

36,000 S. 24 in. Large heads of white flowers in umbels, similar to *Didiscus*. Nice filler for basket work. May be dried and dyed. Tr. ptk., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

RICINUS (Castor Bean)

Very fast growing, tall, large leaved plants. Good for tall hedges and windbreaks.

Borbonia Arboreus. 45 S. 10 ft. Reddish stems and veins. Small feathery white flowers in bunches.

Sanguineus. 7 ft. Reddish leaves and seed pods.

Zanzibariensis Mixed. 25 S. 10 ft. Foliage all green.

Prices on the above three varieties: 1 oz., 20c; 4 ozs., 60c; 1 lb., \$2.00.

RUDBECKIA

85,000 S. Fine outdoor cutting material. Very free flowering in bright yellow, orange and brown shades. Stands hot dry locations very well.

***Starlight.** The only Rudbeckia strain we have seen that actually produces fully double, Dahlia-like flowers. An attractive mixture of autumn shades flowering on long stems; flower type ranges from nearly single to fully double. Should be a nice cut flower item.

Tr. ptk., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.75.

Hirta Autumn Tints (Herbswald). Fine long-stemmed strain for cutting. Shades from clear yellow thru variegated types to brown. Tr. ptk., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Kelvedon Star. Fine long-stemmed cutting strain. Yellow, orange and mahogany shades with dark centers.

Tr. ptk., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

For the hardy **Rudbeckia Purpurea**, see page 43.

SALPIGLOSSIS

125,000 S. Besides an attractive garden flower, Salpiglossis furnishes the retail grower with good cutting material either from a Feb. sowing indoors or a later one grown outdoors. If plants must be transplanted, the seed should be sown in pots. The advent of the new dwarf strains for bedding adds another use for this richly colored annual.

EMPEROR. 30 in. The tall kind for cutting.

Brown and Gold **Violet and Gold**
Rose and Gold **White and Gold**
Scarlet and Gold **Yellow and Gold**

*Mixture of all colors.

Each: Tr. ptk., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

DWARF GIANT FLOWEDED. 20 in. Fine for bedding and borders.

Blue and Gold

Mixture of all colors in this dwarf class.

Each: Tr. ptk., 20c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.

SALVIA

We are assured of good seed supplies of this important florist's bedding item this year, especially of the very popular *America*. Our finest pre-war Holland grown seed was used as planting stock for all the following varieties that have been grown for us in America by a Salvia specialist. In the event that shortages do develop late in the season, may we suggest that orders be gotten in as early as possible.

SPLENDENS. 12,000 S.

***America** (Globe of Fire). 22 in. This is our uniformly true and even stock of this fine variety. The original unsurpassed Holland strain now American grown. Follows Firebrand in flowering date. Tr. ptk., 50c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.00; 4 ozs., \$14.00.

***Blaze of Fire.** Extra early flowering and of uniform medium dwarf habit, 15 to 18 in. Ours is a true and even strain of this choice variety. Tr. ptk., 50c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.50; 4 ozs., \$20.00.

***Firebrand** (Early Harbinger). 20 in. Between Blaze of Fire and America in earliness of flowering. Remains in full flower throughout the summer. Tr. ptk., 50c; $\frac{1}{4}$ oz., \$1.35; 1 oz., \$4.75; 4 ozs., \$16.00.

Bonfire. 30 in. Medium tall, very even.

Tr. ptk., 50c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.50; 4 ozs., \$12.00.

Splendens Tall. 36 to 40 in. Not early flowering.

Tr. ptk., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50; 4 ozs., \$12.00.

FARINACEA. 24,000 S.

***Royal Blue.** An improved strain of Blue Bedder. More uniform in growth with deeper blue flowers. We recommend Royal Blue be used for your blue Salvia planting.

Tr. ptk., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50.

MISCELLANEOUS ANNUALS—Continued



The new *Salvia Blaze of Fire*. Notice the ideal dwarf pot plant habit. Our earliest flowering variety.

SALVIA—Continued

Blue Bedder (Blue *Salvia*). 36 in. with long stems for cutting. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.60.
For *Perennial Salvia* Patens, see page 43.

*SANVITALIA

Procumbens. 50,000 S. 4 to 5 in. Double creeping Zinnia. Small golden yellow flowers. Very fine dwarf edging plant. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

SAPONARIA

VACCARIA. 5500 S. Gypsophila-like flowers.
White Rose
Each: 1 oz., 20c; 4 ozs., 65c.

For *Saponaria Ocyoides*, see page 43.

SCABIOSA

4500 S. Pleasing colors and long stemmed, free flowering habit make annual *Scabiosa* a worth while spring cut flower item when grown in a cool house. Sow directly in the open for summer cutting. No retail grower should be without some of this. The first two listed are our finest strains and biggest sellers.

***Blue Moon**. Fine lavender-blue color with extra large, full double flowers and long, wiry stems. The standard market color. Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

***Giant Hybrid Mixture**. A special strain containing only the new large flowered varieties. Well-balanced in good cut flower colors. Use this mixture if you want only a small planting of *Scabiosa* for cutting.

Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.00.

Ageratum Blue. Large-flowered azure blue.

Fire King. Bright scarlet.

King of the Blacks. Deep rich maroon.

***Loveliness**. Extra large flowered, deep salmon-pink.

***Shasta Improved**. Fine pure white.

Prices on each above: Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.
DWARF CLASS. Recently introduced and enlarged, this new type is finding use for bedding and garden work. The stems are long enough for short-stemmed cut flowers and the shorter plants will hold themselves upright without support.

***Heavenly Blue**. Clear azure blue. Tr. pkt., 25c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.75.

Peace. White. Tr. pkt., 25c; $\frac{1}{4}$ oz., 55c; 1 oz., \$1.75.

Tom Thumb Mixture. 10 in. Extra dwarf and compact plants for bedding and edging. Mixture of colors. Tr. pkts., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.00.

For *Perennial Scabiosa*, see page 43.

SCHIZANTHUS (60,000 seeds per oz.)

***Ball Dwarf Mixture**. A distinctly dwarf growing strain with compact heads of medium sized flowers. At its best in a 3 or 4-inch pot. Sow in October for Easter pot plants. Price: Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.50.

Pansy-Flowered Mixture (Danbury Park Strain). Flowers flat and full petalled, resembling small Pansy flowers. We supply originator's packet at 75c ea. Bulk seed grown from the originator's seed priced at: Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00.

Dr. Badger's Improved Hybrids. A brightly colored large-flowered strain of medium height. Suitable either for pots or cutting. Price: Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.15.

***Giant Blotched**. Brightly colored rose and pink shades, with contrasting dark centers. Somewhat earlier than most strains and a good pot plant if well pinched. Price: Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25.

Monarch Strain. Extra large flowered and strong, robust growth. Attractive mixture of colors. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25.

Ball Brilliant Blend. A carefully blended mixture of fairly tall growing varieties recommended for the grower who grows a limited number of plants and wants a complete mixture. Price: Tr. pkt., 35c; $\frac{1}{8}$ oz., 75c; $\frac{1}{4}$ oz., \$1.25.



SCHIZANTHUS, Ball Dwarf Strain

The attractive form and free-flowering habit of these plants have increased their popularity every year since their introduction.

MISCELLANEOUS ANNUALS—Continued

SHAMROCK

True Irish Shamrock. 38,000 S. Sow Jan. 1st in Carnation house temperature (cooler after germination) for 2-inch St. Patrick's Day plants, use 3 or 4 seedlings per pot. Tr. pkt., 20c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.

SMILAX

7800 S. Well-known greenhouse climber.

Tr. pkt., 20c; 1 oz., 60c; 4 ozs., \$1.85.

For **Snow-on-the-Mountain**, see Euphorbia, page 40.

SOLANUM

To insure an even, first class strain of this valuable pot plant we grow our own seed crop of these varieties at West Chicago where we can personally supervise selection and roguing. For well grown 4 in. specimens, sow seed in June, carry along indoors. Larger plants must be started earlier, of course. Some growers summer plants outdoors in frames, lifting and shifting into 5's and 6's in Sept.; a 50 deg. house should then set them up well for the holidays.

***Christmas Pepper** (Ball reselected strain). 9000 S. Compact plants with a profusion of cone-shaped fruit that are first green, later turning purple and then red. Selected for absolute evenness and large brilliantly colored fruit.

***Christmas Cherry** (Hlavecek's Masterpiece—Ball Strain). 12,000 S. A uniform, bushy strain without the wild growth of the original Cherry varieties. Large round red fruit is very freely produced.

Prices on the above varieties each: Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

Royal Crown. A reselected Xmas Pepper Strain.

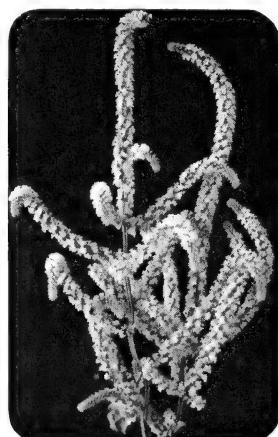
***Patterson Variety.** A compact strain of Christmas Cherry. Fruit medium sized and freely produced well above foliage. Because of its compact growth, well suited for the smaller-sized pot specimens.

Variegated Pepper. Produces attractive variegated green and white leaves with long narrow suspended fruits that are first purple then red. A nice novelty item.

Bird's Eye Pepper. 12,500 S. Of fairly uniform bushy habit with small leaves. Produces many very small red berries.

Cleveland Cherry Yellow. Butter yellow colored fruit.

Prices on the above five varieties each: Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.



STATICE SUWOROWI
The pleasing rose-pink color of this "rat tail" type of Statice gives it distinctive cut flower and pot plant value.



New *Sinuata* or *Annual Statice, Lavender Queen*. An attractive clear pastel lavender with excellent growth.

***Love Apple.** Produces brilliant, orange-red fruits $1\frac{1}{2}$ in. across; popular recently on wholesale flower markets. An annual shrubby plant growing to 3 ft. with long thorny branches of fruit. Decorative and colorful. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.75.

STATICE

SINUATA. 350 seed heads per oz. A midwinter sowing brings this attractive class into flower in late spring. Flowers grown outdoors for drying extensively in southern climates.

***Market Grower's Blue.** Fine even deep blue. Excellent stock. **Kampf's Tall Improved.** The standard long-stemmed blue.

True Blue. Good Blue.

***Lavender Queen.** A very pleasing shade of pastel lavender. Fine color and good grower.

Rosca Superba. Rosy-lavender.

Snow Witch. A clear white selection from the old Sinuata White.

***New Hybrids Mixture.** A very attractive mixture of all the standard colors as well as many new hybrid shades.

Bondielli Superba. 350 seed heads per oz. Similar in type to Sinuatias but with large yellow flowers.

Each: Tr. pkt., 15c; 1 oz., 25c; 1 lb., \$3.00.

Suworowi. (Russian or Rat-Tail Statice). 12,000 S. A very useful Statice for greenhouse forcing. Seed sown in January will produce fine artistically curved rose pink "rat-tails" that work in splendidly with center-pieces, etc., in late spring. Not suited for drying. Tr. pkt., 15c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.

For **Perennial Statice**, see page 43.

For **Strawflower**, see *Acroclinium*, page 20 and *Helichrysum*, page 27.

MISCELLANEOUS ANNUALS—Continued

STREPTOCARPU

Giant Flowered Mixture. (Cape Primrose). Our original stock of this greenhouse winter flowering pot plant was grown by an European specialist; we are convinced no better is obtainable. Similar to Gloxinias and with the same general culture necessary. Very fine seed that requires care in germinating. Tr. pkt., \$1.00; $\frac{1}{6}$ oz., \$2.35.

For **Sunflower**, see Helianthus, page 27.

THUNBERGIA

Excellent for an outdoor climber or for hanging baskets.

***Alata.** (Black-Eyed Susan). 1100 S. Very fine, used as an annual climber, making a dense growth and producing an abundance of flowers in shades of yellow, buff, and orange—with black centers. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00; 4 ozs., \$3.50.

TITHONIA

Speciosa. (Golden Flower of the Incas). 3500 S. Winter flowering in a Carnation house with roots confined to a shallow raised bed. Attractive single orange-red flowers. Early flowering strain. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c.

Speciosa, Fireball. Tr. pkt., 25c; $\frac{1}{4}$ oz., \$1.00.

For **Tobacco Plant**, see Nicotiana, page 30.

TORENIA

375,000 S. Rich combination of deep blue with deeper blotches on lip. Nice spring pot or outdoor bedding plant.

Fournieri Grandiflora. Standard variety.

Fournieri Compacta. A distinctly compact form of above. Prices on above two varieties each: Tr. pkt., 35c; $\frac{1}{16}$ oz., 75c.

TRACHELIUM

Coeruleum, 28,000 S. per $\frac{1}{32}$ oz. Nice deep blue for either cutting on a raised bed from a Jan. start, or in pots.

Tr. pkt., 50c.

URSINIA

Pulchra, Dwarf, compact, vivid orange bedding and edging plant. Should be used where summers are moderate. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c.

VENIDIUM

Ball Hybrids. 65,000 S. An interesting array of colors ranging from silvery white through buff and orange shades. At its best indoors on a raised bed from a fall sowing. Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c.

VERBENA

Most varieties come very true with few exceptions. The Compacts make excellent spring pot plants but are less well adapted for bedding where summers are trying. Under most conditions the Grandifloras make a wonderful display. Sow early with bottom heat.

GRANDIFLORA. 10,000 S. Large flowered and of flat spreading growth.



Verbena Dannebrog. Dark scarlet with white center of this new, compact variety makes it quite effective.



Verbena Bonariensis, a valuable outdoor cut flower that produces an abundant crop of flowers during late July and August from a March sowing. No supporting necessary and any good garden soil is sufficient. Seed doesn't germinate satisfactorily in soil temperatures below 70-75°.

VERBENA—Continued

Apple Blossom. Extra large flowered white turning to light or "cameo" pink. Very true to color.

Beauty of Oxford Hybrids. Shades of extra deep bright pink with slight white eye. Very excellent large flowered strain with some color variation.

Blue. Deep marine shade with white eye. Prefer Royale.

***Crimson Glow.** Extra deep rich crimson.

***Dannebrog.** Bright scarlet with large white eye. Very attractive combination. Growth more compact than other Grandifloras.

***Ellen Willmott.** Extra large flowered salmon-pink with white eye.

Etna. Scarlet with some white eye.

Floradale Beauty. Extra large flowered in salmon pink shades.

***Lavender Glory.** Very fine large flowered fairly deep lavender. Throws about 25% white rogues.

Lucifer. Scarlet, Spectrum Red better.

Luminosa. Deep salmon shaded pink with white eye.

Mayflower. Medium light pink.

***Mounty.** A brilliant scarlet or cardinal red with small light eye. Color deeper than Spectrum Red and stronger in growth. A fine bright red Verbena.

Pure White. Very even strain.

***Rosea Stellata.** Clear deep pink with white eye. Quite free flowering and a strong grower.

***Royale.** Large flowered rich deep blue with contrasting white eye.

***Spectrum Red.** Very bright rich scarlet with no eye. Lighter and brighter color than Crimson Glow. Very even true strain.

Mixture of all colors in the Grandiflora class.

Prices on above varieties including the Mixture. Each: Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.60.

COMPACTA. 10,000 S. A compact erect growing type particularly adapted for border and pot work. Quite free flowering.

***Blue Sentinel.** Semi-compact in growth, attaining a height of 10 in. and a spread of 12 to 15 in. Color a rich violet blue. A fine semi-dwarf, free flowering variety.

MISCELLANEOUS ANNUALS—Continued



Showing three Petunia plants in our Plant Bands, compared with potted plant started at same time.

VERBENA—Continued

Carmine Ball. 6 in. Bright carmine-scarlet.

Chamois. 6 in. Heavy cream or chamois-pink.

***Dark Blue.** 6 in. Deep marine blue.

***Fireball.** 4 to 5 in. Extra dwarf; Bright fiery scarlet.

Snowball. 6 to 8 in. Fine free flowering pure white.

Mixture of all colors available in this compact class. 6 in.

***Violet Bouquet.** 10 to 12 in. Deep Violet. Distinctly upright symmetrical habit.

Royal Bouquet. 10 to 12 in. Same habit as above but a mixture of all colors in this "bouquet" type.

Prices on above Compacta varieties and Mixture, each: Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

MISCELLANEOUS VARIETIES.

***Bipinnatifida.** (Pronounced by-pin-a-TIF-i-da) 18 in. Very heavy, fast grower. Deeply serrated leaves account for its common name, Fern-leaved Verbena. Cluster of attractive lavender-blue flowers borne freely thruout season.

Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50.

***Bonariensis.** 90,000 S. 36 in. A long-stemmed Verbena with lavender-blue flower clusters. Foliage stays near the ground making this new type well suited to cut flower work. Very decorative garden plant. Germination slow. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.75.

***Venosa.** 60,000 S. 8 to 10 in. A dwarf bedding Verbena that flowers continuously thruout our hot mid-Western summers. Deep lilac flowers produced quite freely. Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.60.

Erinoides. (Moss Verbena). 30,000 S. Its extra strong growth makes a 3 to 4 ft. wide row 10 in. high. Small lavender flower heads quite freely produced. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

VINCA

ROSEA. (Periwinkle). 21,000 S. 15 in. One of the most generally satisfactory outdoor bedding plants we have. Will stand an almost unbelievable amount of hot, dry weather. Sow early with bottom heat.

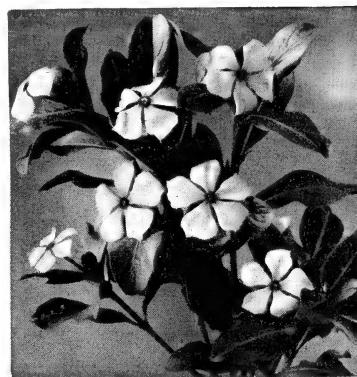
***Twinkles.** Soft blush pink with bright red eye. An unusual color and large flowered.

***Crimson.** (Kermesina). A magenta crimson—deeper than Rosea Pink.

***Pink.** (Rosea). The standard medium pink.

Alba Pura. Pure white.

Alba Oculata. White with pink center.



Vinca Rosea—one of the finest all purpose bedding plants.

VINCA—Continued

Delicata. Light pastel pink shade.

Mixture of above colors.

Prices on above varieties and Mixture, each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

VIRGINIAN STOCK

Compacta Mixture. 60,000 S. 8 in. Nice compact bedding plant. Tr. pkt., 15c; 1 oz., 65c.

WALLFLOWER (Annual) 14,000 S.

Gold Standard. Richly fragrant deep golden yellow. In our latitude should be sown in October for greenhouse flowering. Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c.

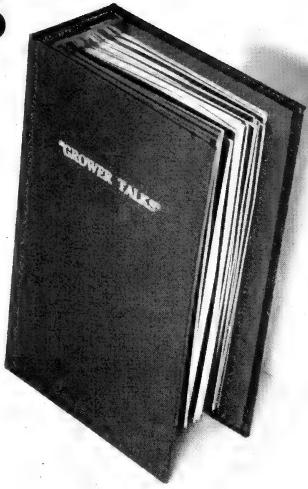
For **Perennial Wallflower**, see Cheiranthus, page 39.

For **Zinnias**, see pages 10 and 11.

For "Lucky" Germination

An electric hot bed cable such as the one shown above in our germination testing bed will maintain the 65 deg. minimum SOIL TEMPERATURE which is necessary for most seed. Notice the cable is covered with sand and the flats are laid on pieces of lath to avoid injury to the cable.





Binder

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"Grower Talks"

Every issue of GROWER TALKS can be right at your finger tips when you need it to answer that question that's bothering you if you use the new binder pictured. It is large enough so that it will hold copies for two years. Both practical and flexible, it is easy to use and quite permanent.

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SOME CULTURAL SUGGESTIONS
ON VARIOUS MISCELLANEOUS
FLORICULTURAL CROPS

GEO. J. BALL

PRICE 75c

SIX EDITION

GROWER TALKS

(Monthly)

By Geo. J. Ball and others

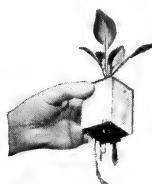
Our monthly medium for suggesting timely sowing of seasonal crops, along with practical suggestions for growing them on. Also includes notes of general Floricultural value as noted by the editor and his staff. Monthly 40c per yr. 2 yrs. 75c.

BALL RED BOOK—

5th Edition

By Geo. J. Ball

Exactly 50 yrs. growing experience with miscellaneous crops is gathered into this paper bound booklet. Two hundred and twenty-five subjects are treated in this new edition. We gladly mail it to our customers for the cost of printing and mailing which is 30c.



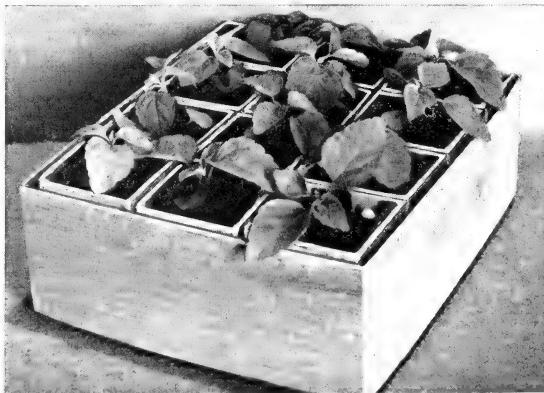
WANTED—Vegetable and Flowering Plants

The need and demand for such, especially vegetable, will be stronger next spring than ever in our history. With a food shortage threatening, all possible encouragement and publicity should be given Victory Gardens. It will be patriotic as well as profitable to do so. And there will be few front yards plowed up for Victory Gardens. We have too much vacant land to make this necessary.

Our public will want flowering plants more freely than ever, for morale would suffer without the colorful and cheering effect of the florist's product.

While plants can be grown in the open soil of flats or benches, most of them transplant much better if in our Better Plant Bands. As we go to press our supply of these bands is complete, but their transportation from Oregon, where they are made for us, is certain to be uncertain during these trying times. Better order now.

BALL Better PLANT BANDS for Florist—Gardener—Nurseryman



One dozen nice plants in 1 3/4" bands, using a 6x7x3 for container—an ideal retail package for flower or vegetable plants.



PLACING THE BANDS

A putty knife is the easiest way to open these bands. Give the bands a light spray with water before opening.

MISCELLANEOUS PERENNIALS



An easily grown useful hardy perennial—*Achillea Filipendula, Parker's variety*

ACHILLEA

***Filipendula Parker's Variety.** (*Eupatorium*) 22,000 S. 4 ft. Large golden yellow flowers, fine for cutting. Perfectly hardy with us. Tr. pkt., 25c $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

***The Pearl.** (*Ptarmica*) 175,000 S. 30 in. The standard double white for cutting. Tr. pkts., only, 35c.

ALYSSUM

The two varieties following are perfectly hardy with us and make fine, free flowering rock garden or border plants.

***Saxatile Compactum.** 30,000 s. 12 in. Flowers early May. Rich golden yellow. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz. \$1.00.

Saxatile Silver Queen. (*Sulphureum*). 30,000 S. Same as above but a light lemon yellow. Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

ANCHUSA

***Barrelieri.** 5500 S. 15 in. Very fine Forget-me-not blue rock garden plant. Flowers middle to end of May. Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

Dropmore Strain. (*Italica*) 1100 S. 6 ft. Nice blue for cutting. Tr. pkt., 15c; $\frac{1}{4}$ oz., 20c; 1 oz., 60c.

Myosotidiflora. 10,500 S. 12 in. May flowering forget-me-not-blue. Seed should be placed in refrigerator for 72 hours before sowing. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25; $\frac{1}{4}$ oz., \$2.25; 1 oz., \$8.00.

ANTHEMIS

Kelwayi (Hardy Marguerite) 85,000 S. 3 ft. Yellow Daisy flowers produced throughout the summer. Tr. pkt., 15c; 1 oz., 65c.

ARABIS (Rock Cress)

***Alpina Snowcap.** 150,000 S. 6 in. Of a dwarf and compact habit. Shining snow-white. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.75.

Alpina. 150,000 S. 12 in. White. Tr. pkt., 20c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.20.

ARMERIA

Maritima (*Statice Armeria*) 17,500 S. 12 in. Lilac-rose. Grass-like, evergreen foliage. Tr. pkt., 50c.

ASCLEPIAS

Tuberosa. 4500 S. Fine orange for cutting. Requires well drained location. Freezing over winter helps germination. Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c; 1 oz., \$2.25.

AUBRIETIA

Large Flowered Hybrids. (*Monarch strain*). 150,000 S. 6 in. This new strain shows a particularly wide and bright color mixture. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$6.00. For **Baby's Breath**, see *Gypsophila*, pages 27 and 40; also *Euphorbia Corollata*, page 40.

AQUILEGIA (Columbine) 15,500 S.

Though not well adapted for shipping, well grown Columbines are of definite cut flower value for retail growers. Not at all difficult to force either. Pot up from the field the first year plants storing in a cold house or frame until about Feb. 1. Start in a low temperature gradually increasing to around 50°. A June sowing can also be planted right out in a raised bench and kept growing for fine spring flowers.

***Longissima.** Delicate, pale yellow with extra long (4 in.) spurs. Richly fragrant. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$2.75; $\frac{1}{8}$ oz., \$5.00.

***Longissima Hybrids.** A variety of attractive shades in the Longissima type. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$2.75; $\frac{1}{8}$ oz., \$5.00.

***Mrs. Nicholls.** A large flowered, clear deep blue Columbine. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25; 1 oz., \$8.00.

***Crimson Star.** Deep blood red with white corolla. Tr. pkt., 75c; $\frac{1}{8}$ oz., \$2.25; $\frac{1}{4}$ oz., \$4.00.

***Mrs. Scott Elliotts Hybrids.** An excellent and popular long-spurred mixture. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50.

Alpina. 2 ft. Blue. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.25.

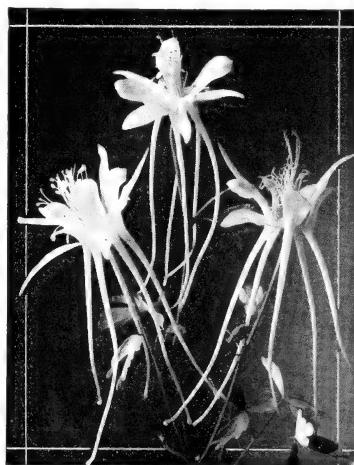
Silver Queen (*Chrysanth*). Long-spurred white. Prefer Snow Queen. Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

Coerulea (Rocky Mountain Columbine). Sky-blue with white corolla. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

***Snow Queen** (*Candidissima*). 18 in. Finest pure white variety. Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

Rose Queen. Rose shades with white corolla; varies in color. Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

Mixture of all colors in this long-spurred class. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.



Aquilegia Longissima—quite a striking novelty

BAPTISIA

Australis (False Indigo). 1700 S. Sprays of pea-shaped indigo-blue flowers. 3 ft. Tr. pkt., 15c; 1 oz., 75c.

BOLTONIA

Latisquama. 95,000 S. 4 to 5 ft. Delicate pink. Tr. pkt., 25c; $\frac{1}{4}$ oz., \$1.35; 1 oz., \$4.25.

MISCELLANEOUS PERENNIALS—Continued

CAMPANULA

CARPATICA. 350,000 S. 12 in Dwarf perennial.

Blue, White and Hybrid Mixture, a strain containing many new colors in this dwarf class. Prices on above varieties and mixture each: Tr. pkt., 25c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00

MEDIUM CALYCANTHENA. (Cup-and-Saucer Type). 120,000 S. 3 ft. Biennial.

Dark Blue Light Blue Rose White Mixture

Prices on above varieties and Mixture; each: Tr. pkt., 20c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.60.

MEDIUM SINGLE (Canterbury Bells). 135,000 S. 3 ft. Biennial.

Blue Lilac Rose White Mixture

Prices on the above varieties and Mixture; each: Tr. pkt., 15c; 1 oz., 60c.

PERSICIFOLIA. 340,000 S. 30 in. Perennial.

White Blue Mixture

Prices on the above varieties and Mixture; each: Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; $\frac{1}{2}$ oz., \$1.75.

PYRAMIDALIS (Chimney Campanula). 250,000 S. 5 ft.

Mixture. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; $\frac{1}{2}$ oz., \$1.75.

For other **Perennial Candytuft** see Iberis page 41.

CARNATION

GRENADIN (Hardy Carnation). 14,000 S. 20 in. Good for cutting.

Golden Sun *Pink *Red White *Mixture

Prices on the above varieties and Mixture; each: Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.00.

For other **Carnation** varieties see page 22.

CATANANCHE

Coerulea. 16,000 S. 30 in. Everlasting light lavender-blue Centaurea-like flowers produced freely first year from seed. Tr. pkt., 25c; $\frac{1}{4}$ oz., 45c; 1 oz., \$1.50.

CENTAUREA

Montana. 1600 S. 24 in. Large Cornflower-blue flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c.

For Annual **Centaurea Cyanus**, see page 23.

CERASTIUM

*Tomentosum. 42,000 S. 10 to 12 in. White edging and rockery plant. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

CHEIRANTHUS (Wallflower)

Golden Bedder. 19,000 S. 18 in. Large deep golden yellow. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

Allionii (Siberian Wallflower). 19,000 S. 18 in. Free flowering brilliant orange. Tr. pkt., 10c; 1 oz., 35c.

For Annual **Wallflower**, see page 36.

CHRYSANTHEMUM

***Korean Hybrids**. 60,000 S. Single and semi-double types saved from a large planting of experimental crosses. Wonderful color range. Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.25; $\frac{1}{4}$ oz., \$3.50.

COREOPSIS

***Sunburst (New Gold)**. 11,000 S. A fine semi-double strain. Tr. pkt., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

***Mayfield Giant**. 11,000 S. Extra large deep golden yellow. Single. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

DAISY (Chrysanthemum Leucanthemum)

Double Fringed (Diener's) 18,000 S. A specially reselected strain producing about 50% good double types that should be propagated by division. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.25; $\frac{1}{4}$ oz., \$4.00.

***June Marguerite**. 40,000 S. Large June flowering variety.

***Mayfield Giant**. 21,000 S. Quite large flowered, end of June.

Alaska. 21,000 S. The standard Shasta Daisy, July.

Conqueror. 21,000 S. Giant late white, late July.

Prices on above varieties each: Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

DELPHINIUM (10,000 S.)

An early spring sowing of either the Giant Pacific Hybrids or the regular cut flower kinds such as Belladonna Improved will produce fine large clumps by next fall for greenhouse forcing or sale.

GIANT PACIFIC HYBRIDS

Blue Bird Series. The clearest of medium blues with white bee. 2 $\frac{1}{2}$ in. flowers.

Galahad Series. The finest clear white Delphinium we list. Huge double flowers borne on long, closely set spikes.

Black Knight Series. Deep mid-night violet. The darkest of them all.

Blue Jay Series. A brilliant true medium blue with dark bee.

Cameliard Series. A pure lavender self with white bee. Very attractive.

Round Table Series. Hybrid or "trial ground mixture." Containing many new and interesting color types not yet introduced.

Guinevere Series. Fine light, pinkish-lavender with white bee.

King Arthur Series. Royal violet with white bee. Exceptional flower size.

Summer Skies Series. Light blue with an attractively contrasting white bee.

Prices on above varieties, each: Tr. pkt., $\frac{1}{8}$ oz., \$2.50; $\frac{1}{4}$ oz., \$4.00; 1 oz., \$14.00.

Clear White. A very fine clear white, large double flowered hybrid Delphinium.

Blue Shades. One of our most popular strains. Mixture of light, medium and dark blue strains.

Lavender Pastel Shades. Mostly two-tone lavender combinations with brown or black bees.

Violet Shades. Deep, rich violet-blue colors with many contrasting white bees.



Vetterle and Reinelt's Giant Pacific Clean White Delphinium.
Photo taken May 1, 1939

Mixture. A complete mixture of all colors in this fine hybrid type. Our finest Hybrid Delphinium strain.

Prices on above four varieties and mixture, each: Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.50; 1 oz., \$12.00.

See next page for balance of Delphiniums.

MISCELLANEOUS PERENNIALS—Continued

OTHER VARIETIES

Belladonna Improved. A carefully reselected strain of this standard light blue. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.65; 1 lb., \$32.00.

Lamartine. Deep, bright marine blue with white eye. Outstanding for color and cut flower habit. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.35; 1 oz., \$4.75.

Bellamosum Improved. A reselected strain of this standard deep blue. Tr. pkt., 35c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.65; 1 lb., \$32.00.

Belladonna. The original or regular strain. Tr. pkt., 30c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Blackmore and Langdon Hybrids. Shades of blue with contrasting bees. A fine, free-flowering, hybrid strain. Tr. pkt., 50c; $\frac{1}{4}$ oz., 90c; 1 oz., \$3.00; 4 ozs., \$9.00.

Wrexham or Hollyhock Strain. Extra large, tapering spikes. Long blooming period. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.60; 1 oz., \$5.50.

Gold Medal Hybrids. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

DIANTHUS (28,000 S.)

Allwoodi Alpinus Mixed. (8 to 10 in.) $\frac{1}{2}$ in. single flowers in shades of pink. Early June. Tr. pkt., 35c; $\frac{1}{4}$ oz., 90c.

Deltoides Erecta. 6 in. June flowering. A dwarf Maiden Pink. Bright red. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$2.00; 1 oz., \$7.00.

Knappi. 12 to 15 in. June flowering. Small clusters of single yellow flowers. Perfectly hardy. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.50; $\frac{1}{4}$ oz., \$2.75.

***Loveliness.** 20 in. Large, freely produced, light lavender flowers, quite fragrant and with highly fringed and curled petals. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.35.

***Latifolius Atrococcineus.** 12 to 15 in. Miniature Rose-like flowers. Bright crimson. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

Plumarius, Single Mixture (Clove Pink). 20 in. Early, free flowering, and sweet scented. Tr. pkt., 15c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.

BARBATUS (Sweet William). 24 in. Early June flowering. Perfectly hardy, flowering second season from seed.

***Holborn Glory.** Striking combination of crimson with white.

***Newport Pink** (Pink Beauty). A particularly rich pastel salmon rose shade. Very attractive.

Purple Beauty. Rich deep color.

Scarlet Beauty. Well named.

Giant White. Ours is a particularly large flowered strain.

Single Mixture.

***Double Mixture.**

Prices on above varieties and Mixtures, each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

***Single Midget Mixed.** Very fine neat alpine and rock plant. 6 to 8 in. with dense heads of single Sweet William flowers. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

For other **Dianthus**, see page 26.

DICTAMNUS

Fraxinella (Gas Plant). 1700 S. 30 in. Pink with dark veins. Sow seed in the fall and allow to stand outdoors over winter for good germination. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

DIELYTRA (Dicentra)

Spectabilis (Bleeding Heart). 1600 S. 32 in. Sow seed in fall and allow to stand outdoors over winter for good germination. Tr. pkt., 75c; $\frac{1}{8}$ oz., \$2.50; $\frac{1}{4}$ oz., \$4.50; 1 oz., \$16.00.

DIGITALIS

CLOXINOIDES (Foxglove). 180,000 S. 4 ft.

Purple, Rose, White, and Giant Shirley Mixture Each: Tr. pkt., 20c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

DORONICUM (Leopard's Bane)

Caucasicum. 18,000 S. Large yellow daisy-like flowers with long stems. Keep fine when cut. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.25.

ECHINOPS

Ritro (Ornamental Thistle). Blue flower heads $1\frac{1}{2}$ to 2" in diameter. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c.

EREMURUS

Species Mixed. Tall stately spikes in shades of pink and white. Takes 4 or 5 years to flower from seed that should be frozen before germination. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$2.00; 1 oz., \$7.00.

ERYNGIUM

Amethystinum. 19,000 S. 3 ft. Large amethyst-blue thistle-like flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

EUPHORBIA

Corollata (Wild Baby's Breath). 8700 S. 24 in. Small Gypsophila-like white flowers. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.25; 1 oz., \$4.25.

Polychroma. 15-20 in. Very compact plant producing brilliant yellow bracts of leaves. Perfectly hardy with us. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.35.

Myrsinites. Attractive succulent-like silvery green foliage. Each branch produces a brilliant yellow bract of leaves in May. 6-8 in. tall. Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.15.

For **Feverfew**, see *Matriaria*, page 42.

For **Foxglove**, see *Digitalis*, this page.

GAILLARDIA

GRANDIFLORA. 9500 S. The following strains, except *Goblin*, are excellent cut flower sorts; large flowered and long stemmed.

***Dazzler.** The standard fine cutting strain. Golden yellow with maroon center.

***Monarch Strain.** A very superior mixture of large, full petaled flowers with an unusually bright color mixture.

Prices on the above two varieties, each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

Burgundy. Deep shade of wine red. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Maxima Aurea. Yellow. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

Portola Hybrids Mixed. Standard hybrid mixture. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

Goblin. 12 to 14 in. Forms very attractive compact plants. Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

For **Annual Gaillardia**, see page 26.

For **Gas Plants**, see *Dictamus*, this page.

GEUM (7000 S.)

Lady Stratheden. 24 in. Double golden yellow.

Mrs. Bradshaw. 24 in. Double glowing red.

Prices on the above two varieties, each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

GYPSOPHILA

34,000 S. Valuable for outdoor summer cutting and easily and economically grown.

***Pacifica.** 42 in. Starry pink flowers in Sept. and Oct. Tr. pkt., 25c; $\frac{1}{4}$ oz., 80c; 1 oz., \$2.75.

***Oldhamiana.** 30 in. Feathery light pink flowers with silvery foliage. Blooms first year from an early sowing. Oct. flowering —watch frost dates. Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

PANICULATA. The regular white hardy Gyp. Note that double grafted varieties like Bristol Fairy are not available from seed.

***Double Snow Flake.** 40 in. An improved double hardy Gyp. About 50% are double flowering plants. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.35; 1 oz., \$4.50.

Single White. Tr. pkt., 15c; 1 oz., 40c.

REPENS. 6 in. An attractive hardy rock garden plant.

Rose **White** Prices on the above two varieties, each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.60.

For **Annual Gyp**, see page 27.

MISCELLANEOUS PERENNIALS—Continued

HELIANTHEMUM

Mutabile (Rock Rose). 15,000 S. 8 to 10 in. Very attractive dwarf evergreen rock plant. Tr. pkt., 20c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.

HEUCHERA

Sanguinea Splendens (Coral Bells). 750,000 S. 24 in. Crimson. Attractive, with some value for cutting. Blooms all summer. Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.75; $\frac{1}{8}$ oz., \$3.00.

HOLLYHOCK

Imperator. 2700 S. Choice double fringed mixture. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75.

Allegheny Mixed. 2700 S. Single and semi-double types. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

CHATER'S DOUBLE. 3100 S. The standard double Hollyhock. **Chamois, Deep Rose, Lilac Beauty, Newport Pink, Scarlet, Sulphur Yellow, White, and Mixture**

Prices on all above Chater's varieties and Mixture, each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.

IBERIS (11,500 S.)

Gibraltarica. 12 in. Large flowered lilac. Tr. pkt., 20c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.35.

Sempervirens Snowflake. 12 in. White flowers in late May. Seedlings flower second season. Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

LATHYRUS

LATIFOLIUS (Hardy or Everlasting Sweet Pea). 550 S. Abundant source of short-stemmed flowers.

Pink Beauty	White Pearl	Red	Mixture
Each: Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 80c.			

LAVANDULA (32,000 S.)

Vera (True Sweet Lavender). Old-fashioned garden plant. Tr. pkt., 30c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

***Munstead Strain**. 12 in. Freely produces large sweet scented flowers a month earlier than the common Lavender. An improved Vera. Tr. pkt., 30c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

LEUCOCORYNE

Ixioides Odorata (Glory of the Sun). Light blue bulbous plant requiring two or three years from seed sowing to flowering sized bulbs. Tr. pkt., 75c; $\frac{1}{8}$ oz., \$1.75.

LIATRIS (Blazing Star)

9500 S. Excellent cut flowers, long decorative, bold spikes. Used very effectively in basket arrangements.

***Pycnostachya**. Extra long-stemmed—3 to 5 ft. with long 15 to 18 in. flower spikes of rosy purple. Finest cut flower kind. Tr. pkt., 30c; $\frac{1}{4}$ oz., 80c; 1 oz., \$3.00.

Scariosa, Rosy Purple. Extra large individual flower heads on long, loosely set spikes. Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.25.

***Scariosa White**. A very fine pure white. Long closely set flower spikes. Our strain comes about 85% true to type. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.60; 1 oz., \$.550.

Spicata. Not quite so long-stemmed or with as long flower spikes as Pycnostachya; purple. Prefers a damp low location. Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

White Spike. Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

LILIES FROM SEED

***White Queen**. 8200 S. With the bulb situation in its present acute condition the production of Lilies from seed assumes first rate importance. This strain produces flowers fully equal to the finest Erabu's or Gigs. in 15 months from seed. The largest and finest seed propagated Lily we know of. $\frac{1}{2}$ Tr. pkt., 60c; Tr. pkt., \$1.00; $\frac{1}{8}$ oz., \$1.75; $\frac{1}{4}$ oz., \$3.25; 1 oz., \$12.00.



A bench of Lily White Queen from Seed

Philippinense Formosanum, Giant Flowered. 8200 S. An improved form of the original stock of Philippine Lily. Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00; 4 ozs., \$10.00.

Philippinense Formosanum Improved. 8200 S. The original Philippine Lily. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Regale (Regal Lily). 6500 S. Pink with primrose center. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00; 4 ozs., \$3.00.

LINUM

Perenne (Perennial Flax). 8500 S. Blue. Tr. pkt., 15c; 1 oz., 50c.

LOBELIA

Cardinalis (Fulgens). 725,000 S. (Cardinal Flower). 36 in. Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.25.

Syphilitica. 1,750,000 S. 2 to 3 ft. Attractive blue spikes. Tr. pkt., 25c; $\frac{1}{4}$ oz., 70c; $\frac{1}{8}$ oz., \$1.15.

LUNARIA

BIENNIS (Honesty or Money Plant). 1500 S.

White **Mixture**

EACH: Tr. pkt., 25c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.25.

LUPINUS

POLYPHYLLUS (Hardy Lupine). Fine cutting material. Requires a well drained location and thrives best in cool climates.

***Russell Strain**. 1000 S. Unusually long closely set flower spikes and the widest range of attractive colors found in Hardy Lupines.

Reselected Stock (Originator's packets) 20 seeds, 30c; 65 seeds, 65c; 150 seeds, \$1.25; 350 seeds, \$2.50. Grown from Originator's Stock. Tr. pkt., 35c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00; 4 ozs., \$6.00.

MISCELLANEOUS POLYPHYLLUS VARIETIES. 1450 S.

Dark Blue. Tr. pkt., 15c; $\frac{1}{4}$ oz., 35c; 1 oz., \$1.15.

Rose. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

White. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

***Harkness Regal Mixture**. The standard fine hybrid mixture. Tr. pkt., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

For Annual Lupine, see page 29.

MISCELLANEOUS PERENNIALS—Continued

LYCHNIS (64,000 S.)

***Chaledonica**, 36 in. Scarlet. Tr. pkt., 15c; $\frac{1}{4}$ oz., 25c; 1 oz., 75c.

MATRICARIA Capensis (Feverfew)

(145,000 S.)

***Ball Double White**. Demand for this fine cut-flower has increased steadily since our introduction of it 9 years ago. Sowings made through January will produce a welcome cut during July and early August. Around 90% fully double flowers that hold up well in shipping.

Tr. pkt., 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75.

Double Golden Ball. 10 in. Dwarf, semi-double yellow. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

MYOSOTIS (Forget-me-not) (42,000 S.)

***Blue Bird** (Oblongata). 12 in. Standard blue for Spring green-house flowering. Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.75.

Palustris Semperflorens. Dwarf blue, 12 in. Flowers from early spring until autumn. Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

ALPESTRIS Biennial.

***Royal Blue** (Indigo Blue). 12 in. Deep rich blue.

Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

For **Myosotis Ball Early**, see page 29.

For **Painted Daisy**, see Pyrethrum, this page.

For **Oriental Poppy**, see below.

NEPETA

Mussini. (June-flowering Catnip). 52,000 S. 12 in. Neat bushes of small Lavender-like foliage with lavender-blue flowers. Aromatic. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

PHYSALIS (18,000 S.)

Franchetti (Chinese Lantern Plant).

Large orange scarlet pods; useful for winter decorations. Tr. pkt., 15c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00.

***Franchetti Gigantea**. Same as above but pods twice as large. Tr. pkt., 35c; $\frac{1}{8}$ oz., 90c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$5.00.

PHYSOSTEGIA

Virginica. 16,000 S. 4 ft. Rosy lilac.

Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.60.

For **Pinks**, see Dianthus, pages 40 and 26.

PLATYCODON

GRANDIFLORUM (Tufted Harebell or Balloon Flower). 28,000 S. 24 in. Very attractive for spring sales, perfectly hardy.

***New Giant Early** (Praecox Gigantea). Earlier and larger flowered than the following. Violet blue.

Blue. A clear deep violet blue.

Mixture. A formula mixture consisting of mostly blue shades with some white.

Prices on above two varieties and mixture, each: Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

POPPY

ORIENTALE (Oriental poppy). 140,000 S. Large cup-shaped flowers with crinkled petals that are unsurpassed in brilliancy. Seed produced strains will vary some in color.

Beauty of Livermere. Dark oxblood-red. Tr. pkt., 30c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50.

Brilliant. 40 in. Vivid, fiery red. Tr. pkt., 25c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

Princess Victoria Louise. The standard light orange salmon. Tr. pkt., 30c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50.

Salmon Shades (New). Huge blossoms in unusual new salmon shades. Tr. pkt. 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75.

Mixture of all colors. Tr. pkt. 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50. For other **Poppy** Varieties, see page 31.



The new *Primula Veris Colossea* above is rapidly finding its place in the pot plant field

PRIMULA

VERIS. 33,000 S. A very useful class for spring pot work. Plants lifted from outdoors in fall will make specimen pot plants from February on. The large flowered Colossea is also of value as a cut flower for early forcing.

***Colossea**. Extra large flowers (1½ to 2 in.) on long stiff stems. Remarkable color range including shades of lilac, pink, copper and dark red. Tr. pkt., 75c.

***Giant Munstead Strain**. The standard strain for bedding. Not so tall as above; in shades of yellow. Tr. pkt., 75c; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.75; 1 oz., \$14.00.

***Polyanthus Mixture**. 12 in. Tr. pkt., 75c; $\frac{1}{8}$ oz., \$1.75; $\frac{1}{4}$ oz., \$3.25; 1 oz., \$12.00.

Blue Flowered. Tr. pkts only—\$1.00.

Giant Monarch Strain. A fine large flowered mixture. Tr. pkt., 75c; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.75; 1 oz., \$14.00.

Giant Crimson. Large flowered Giant.

Giant Yellow. A Giant separate color selection.

Giant White. A true giant.

Prices on the above three varieties, each; Tr. pkt. 75c; $\frac{1}{16}$ oz., \$1.75; $\frac{1}{8}$ oz., \$3.00.

Vulgaris. (True Yellow English Primrose). 19,000 S. 6 in. Sow seed in the fall and allow to stand out-doors over winter for proper germination. Tr. pkt. 50c; $\frac{1}{4}$ oz., \$1.65; 1 oz., \$6.00.

Bullesiana Hybrids. 130,000 S. 18 in. Mixture. Seed of irregular germination. Tr. pkt. 50c; $\frac{1}{4}$ oz., \$1.50. For other **Primula** varieties, see pages 31 and 32.

PYRETHRUM

Parthenifolium Aurea, Excelsior. 325,000 S. 3 in. Very dwarf; finely divided yellow-green foliage.

Tr. pkt., 15c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.25.

ROSEUM (Painted Daisy). 18,000 S. The standard hardy cut flower class.

MISCELLANEOUS PERENNIALS—Continued

PYRETHRUM, Continued

***Robinson's Hybrids.** Large single mixture. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$6.00.
***James Kelway.** Fine dark red cut flower variety. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25; $\frac{1}{4}$ oz., \$2.25; 1 oz., \$8.00.

Atrosanguineum. A popular dark crimson strain. Tr. pkt. 50c; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$6.00.
***Semi-Double Mixture.** An excellent strain. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$6.00.
Single Mixed. An attractive mixture of colors in the large-flowered single type. Tr. pkt. 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50.

RUDBECKIA

Purpurea (Echinacea). 7000 S. 4 ft. Reddish purple. Tr. pkt., 25c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

For other Rudbeckia Varieties, see page 32.

SALVIA

Patens. 3800 S. 30 in. Navy blue hardy salvia. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.75.

SAPONARIA

Ocyrnoides. 5500 S. 12 in. Trailing rose hardy rock plant. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.75.

SCABIOSA

2400 S. Excellent large flowered perennial cut flower material. Seed germination sometimes slow.

Columbaria Lavender. Delicate color.

Columbaria Pink. Orchid-pink shade.

The above are not hardy in northern states.

Caucasica Perfecta. Improved large flowered form of this lilac lavender strain.

Prices on the above three varieties, each: Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

***Caucasica, House Hybrids.** Large beautiful flowers ranging in color from white through azure-blue and lavender to deep blue. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.00.

Fischeri. 30 in. rounded bushy plants. Flowers medium-sized and a bright lilac-lavender color. Very free flowering and perfectly hardy with us. Tr. pkt. 35c; $\frac{1}{4}$ oz., 65c; 1 oz., \$2.25.

SEMPERVIVUM (House Leek)

Perennial Mixture. 325,000 S. Tr. pkt., 35c; $\frac{1}{16}$ oz., \$1.50.

STATICE

Perennial Statice are very hardy, make good cut flower material and some as noted can be successfully dried and dyed.

Caspia. 175,000 S. 30 in. Seedlings flower second season. Lilac. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

***Dumosa.** 19,000 S. 18 in. Dense clumps of silvery gray flowers produced second season from seed. Tr. pkt., 30c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

***Latifolia** (Sea Lavender). 40,000 S. 30 in. Standard blue perennial Statice. Very hardy and may be dried. Tr. pkt., 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.

Perezi. 14,000 S. Flowers in large lavender heads first year from seed. Tr. pkt., 25c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.85.

For Annual Statice, see page 34.

STOKESIA

Cyannea. 3300 S. 16 in. Large blue flowers. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.75.

THALICTRUM

Dipterocarpum. 12,000 S. 3 to 4 ft. Rosy purple clusters for cutting in early June. Blooms second season. Tr. pkt., 25c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

Aquilegialifolium. 40 in. Shades of lilac and mauve. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.25.

TRITOMA (22,000 S.)

***Pfitzers Hybrids.** Large brilliant red.

Mirabilis Hybrids. Yellow and orange shades.

Prices on the above Mixtures, each: Tr. pkt. 25c; $\frac{1}{4}$ oz., 60c; 1 oz., \$2.00.



Ball Matricaria outdoors in July 90-95 per cent double.
Sowing for above crop was made February 1st

TROLLIUS

LEDEBOURI (Globe Flower) 8000 S. Sow in fall and allow to stand outdoors over winter for good germination.

Golden Queen. 3 to 4 ft. Large golden orange. Good cut flower.

Orange. 2 ft. Late flowering.

Prices on the above two varieties, each: Tr. pkt., 50c; $\frac{1}{16}$ oz., \$1.25; $\frac{1}{8}$ oz., \$2.00.

TUNICA

Saxifraga. 150,000 S. 8 to 10 in. Small rosy lilac flowers produced first season from seed. Tr. pkt. 25c; $\frac{1}{16}$ oz., \$1.25; $\frac{1}{8}$ oz., \$2.00.

VIOLA (Cornuta)

Miniature Pansies. Extra free-flowering and effectively used for bedding. Perfectly hardy.

Apricot. Large flowered true apricot shade. Chantreyland better. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.35; 1 oz., \$4.50.

***Arkwright Ruby.** Maroon-scarlet with dark center. A highly attractive bright color. Tr. pkt. 35c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.60; 1 oz., \$6.00.

Blue Perfection. Large flowered clear medium blue. Tr. pkt. 35c; $\frac{1}{4}$ oz., \$1.50; 1 oz., \$4.00.

***Chantreyland.** Extra large flowered true apricot. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.75; 1 oz., \$5.50.

***Jersey Gem.** (True Stock) Attractive large deep Cattleya. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$2.00; $\frac{1}{4}$ oz., \$3.50.

Johnny Jump Up. A tiny flowered, but unique species; purple, blue, and yellow shades. Tr. pkt., 50c; $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75.

***Lutea Splendens.** Clear golden yellow. Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

Papilio. Blue and white combination. Extra dwarf and free-flowering. Small flowered. Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

White Perfection. Small pure white. Tr. pkt., 35c; $\frac{1}{4}$ oz., 85c; 1 oz., \$3.00.

Large-Flowered Mixture. Complete mixture of all large flowered varieties. Tr. pkt., 35c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50.

Vegetable Seeds for Florists

The following list of vegetable seeds has been developed with the greatest care and watchfulness to help you meet the increasing demand for plants, seeds and vegetables.

Personal contact with our growers and re-checking in our trial ground enables us to select the strains and varieties which will be most profitable for you. This year we have also taken up the growing of a particularly valuable tomato strain, the Waltham Forcing in order to serve you the best in forcing tomatoes.

Selling Plants in BALL Plant Bands

All vegetables that we find can be handled to advantage in our Plant Bands are indicated by the banded Plant Cut. Every grower will find it a distinct advantage to have plenty of vegetable plants ready to display and sell this coming season, and if started in our Plant Bands they will sell themselves readily and at good prices. Your customers will be able to set them out without check and plants will mature much quicker and produce finer vegetables.

These are distinct advantages which you can use to push the sale of the full line of vegetable plants. Many more "Victory Gardens" will be planted this season than ever before, and you should be in shape to take full advantage of this and help your customers to grow more and better vegetables for victory.

SEE INSIDE BACK COVER FOR PRICES AND DESCRIPTION OF BANDS.

FORCING VARIETIES. The star () indicates all varieties particularly well suited for greenhouse forcing. LARGE QUANTITIES. Please let us know if we can be of service with quotations on large quantities of vegetable seed.

WE PAY POSTAGE. Your attention is called to the free transportation offered on all vegetable seeds bought from this catalog.

PRICES MAY CHANGE WITHOUT NOTICE.

It will serve your own interest to **order early**, as some items are likely to be short this season.

1 oz. 4 ozs. 1 lb.

BEETS (1 oz. for 60-foot row)

Sow as early as the ground can be worked and make successive sowings until July. Space rows 18 inches.

Crosby's Egyptian. (Original Strain) 55 days. Globe-shaped. Dark purplish red, excellent quality \$0.20 \$0.65 \$2.00

Detroit Dark Red. (Impr. Strain). 55 days. Standard for home and market garden. Uniform globe-shaped. Tender until full grown25 .75 2.25



Look at these quality tomato plants thriving in four inch plant bands. These will bring better prices.

BEETS, Continued

	1 oz.	4 ozs.	1 lb.
*Early Wonder Tall Top. Valuable for BEET GREENS as well as the fine, deep red, globular roots. Leaves green, succulent and appetizing. Frequently grown for greens only, in succession crops.....	\$0.25	\$0.75	\$2.25
*Extra Early Flat Egyptian. Earliest and best for forcing or home garden. Tops short, flesh dark red.....	.25	.75	2.25

BROCCOLI (About 7000 seeds per oz.)

Sow in March. Space plants 36x24".			
Green Sprouting Early. Valuable all-season "cut and come again" strain for home garden or market, ½ oz. 35c.....	.60	2.00	6.00

BRUSSELS SPROUTS (About 7000 seeds per oz.)

Sow in March. Space plants 36x18".			
Long Island Impr. 90 days. Stem closely set with 1½ in. round cabbage-like heads. 20" tall, good keeper. ½ oz. 35c.....	.75	2.50	7.50

CABBAGE (About 7000 seeds per oz.)

Sow in March for the first crop and in June for a fall crop. Space earlies 24x18", late 36x20". Days indicated are from the date the plants are set out. Handling cabbage plants in bands will secure continued growth. Checked growth often results in premature heading.			
All Head Early. Good winter keeper. Deep heads, flat, firm fine quality, valuable for kraut. 77 days .....	.30	1.00	3.00
Copenhagen Market. Regular early. Medium-sized heads; compact, good yielder, 66 days .....	.45	1.50	4.50

Danish Ballhead. Best late variety, heads large, flat, firm and solid, keeps in storage until late spring, 95 days .....	.45	1.50	4.50
Early Dwarf Flat Dutch. Heads almost ball-shaped, firm, fine flavor and high quality, 71 days .....	.30	1.00	2.90

Early Jersey Wakefield. Extra early. Plants small, allowing close planting, 62 days. Sure header, fine for southern shippers .....	.40	1.35	4.00
Early Winningstadt. 80 days. Hardy, dependable, heartshaped. Very firm and of finest quality. Average weight, 5 lbs .....	.40	1.35	4.00

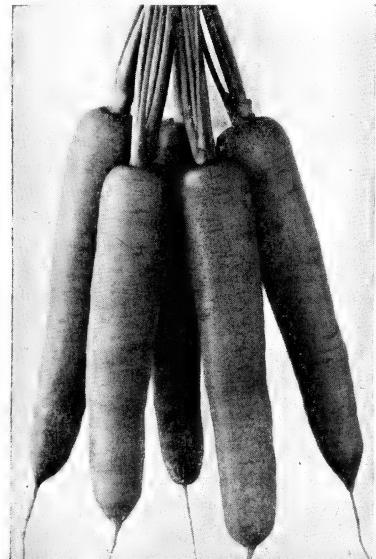
Vegetable Seeds for Florists (Continued)

CABBAGE, Continued

	1 oz.	4 ozs.	1 lb.
Golden Acre. Earliest round head variety for early market and shipping. Short stem. 64 days. Uniform, firm, matures evenly	\$0.45	\$1.50	\$4.50
Jersey Queen. 63 days. The resistant Jersey Wakefield. Heads are solid, conical and the earliest maturing resistant cabbage . . . . .	.45	1.50	4.75
Late Flat Dutch. The best large late variety. Good keeper, firm heads of good quality. 110 days. Dependable . . . . .	.35	1.20	3.25
Mammoth Rock Red. Best red variety. Good keeper, round hard head. 90 days. . . . .	.45	1.35	4.25
Marion Market. RESISTANT to yellows. Heads a little later and larger than Copenhagen Market . . . . .	.50	1.70	5.00
Savoy, Chieftain. (All America award 1938.) 85 days. Heads medium large; flat and firm. Stands long without bursting . . . . .	.50	1.70	5.00
Wisconsin All-Season. RESISTANT to "cabbage yellows." Good winter keeper; large flat hard heads. Excellent kraut variety . . . . .	.45	1.50	4.50

CHINESE CABBAGE

	1 oz.	4 ozs.	1 lb.
Chihli. 70 days. 20 in. tall. Oblong, sure heading when SOWN LATE JULY, maturing in Oct. Of fine flavor and crispness. Good keeper . . . . .	.50	1.35	4.75



Morse's Bunching—The carrot is our most valuable root crop, highest in vitamin value, easy to grow and store.

CARROT (1 oz. for 300-foot row)

	1 oz.	4 ozs.	1 lb.
Sow as early as the ground can be worked and make successive plantings until Aug. 1st. Space rows 12 to 18".			
*Amsterdam Forcing or Early Scarlet Horn. Roots reddish orange, 3 to 4 inches long, uniformly tapered. Best for forcing. Also profitable for outdoors, about 2 weeks earlier than other varieties	\$0.50	\$1.70	\$5.00
Chantenay Red Cored. Fine all-purpose variety. Dependable heavy yielder. Good for winter storage . . . . .	.45	1.50	4.50
Danvers Half Long. 75 days. Bright orange, tapering. Very productive . . . . .	.45	1.50	4.50

CARROT, Continued

	1 oz.	4 ozs.	1 lb.
Morse's Bunching. (All America Award) Medium tops, 1½x8 inches long, almost cylindrical			\$0.45 \$1.50 \$4.50
Nantes Stump Rooted. 70 days. Roots 6 in., cylindrical and coreless. Popular strain of highest quality . . . . .			.50 1.70 5.00
Supreme Half Long. 75 days. An excellent new variety. Attractive deep orange throughout and of greatest sweetness. Small tops, roots 6 to 7" and shape of a refined Danvers. Highly recommended . . . . .			.50 1.70 5.00



Cauliflower—Snowball "A"

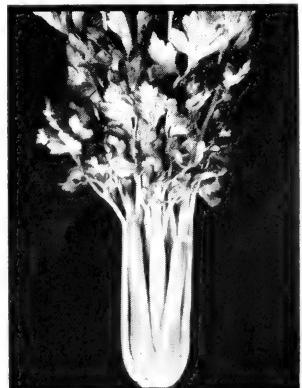
CAULIFLOWER (About 7000 seeds per oz.)

	1 oz.	4 ozs.	1 lb.
The greatest care is taken to get the best obtainable strains from specialist growers. Sow in March for plant sale. To handle plants in bands or pots is essential for unchecked growth and sure heading. Space 18x24". Days indicated are from date plants are set out.			
Danish Giant Dry Weather. 65 days. Tr. pkts., 50c; ¼ oz., \$1.00			\$2.75
Early Dwarf Erfurt. Danish grown. Tr. pkts., 50c; ¼ oz., \$1.00			2.75
*Early Snowball "A." 55 days. Standard early. Fine for greenhouse forcing, frame or outdoor culture. Tr. pkts., 50c; ¼ oz., \$1.00			3.00 \$10.00 \$30.00
Snowball "X." 65 days. Well adapted for use under a wide range of conditions. Heads large, firm and pure white. Tr. pkts., 50c; ¼ oz., \$1.00			3.00 10.00 30.00
Snowdrift. 65 days. Head slightly larger than Snowball, firm and well protected by inner leaves. Good for distant shipping. Tr. pkts., 50c; ¼ oz., \$1.00			3.00 10.00 30.00

CELERY

(About 8000 plants per oz.)

Sow in February/March for Plant sales. Cover seeds lightly. Space 6x28". Days indicated are from date of planting.



Celery, Epicure

Vegetable Seeds for Florists (Continued)

CELERY, Continued

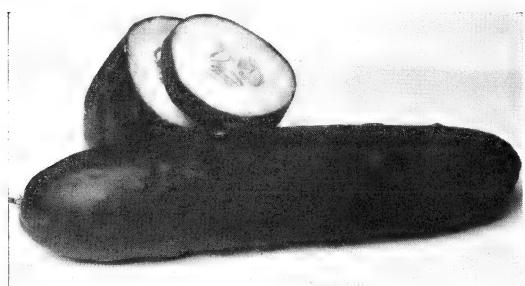
	1 oz.	4 ozs.	1 lb.	
Epicure. New—RESISTANT. Edible stem 10 in. pale green, smooth rounded and of exceptional crispness. $\frac{1}{2}$ oz., 35c	\$0.60	\$2.00	\$6.00	
Giant Pascal. 140 days. The standard late, green celery of excellent quality. $\frac{1}{2}$ oz., 30c	.50	1.70	5.00	
Golden Plume. 85 days. Early and very desirable for home and market garden. $\frac{1}{2}$ oz., 30c	.50	1.70	5.00	
Golden Plume—Non-Bolting. Proved bolt-resisting under severe conditions. $\frac{1}{2}$ oz., 30c	.50	1.70	5.00	
Golden Yellow Self-Blanching Dwarf. Standard market and shipping sort. $\frac{1}{2}$ oz., 30c	.60	2.00	6.00	
Utah or Salt Lake. No. 99. 125 days. One of the finest varieties on the market. Mid-season, full hearted and compact. $\frac{1}{2}$ oz., 30c	.50	1.70	5.00	

CELERIAC

Large, smooth Prague. Turnip rooted celer-y. Good winter keeper. $\frac{1}{4}$ oz., 20c	.50	1.70	5.00	
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CHIVES

"Grass-Onion." A perennial, quickly started from seed. Popular for flavoring also for decorative value. $\frac{1}{4}$ oz., 50c	1.50	5.00	
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Longfellow. Best of standard American forcing Cucumbers.

1 oz. 4 ozs. 1 lb.

CUCUMBER (About 1000 seeds per oz.) 1 oz. for 80 hills or 50-foot row. Distance between rows 3 to 6 ft.				
A. & C. 68 days. 8 to 9 inches long. Straight tapering at ends and of deep green color. Does well on light soil	\$0.30	\$1.00	\$3.00	
Chicago Pickling. Most valuable for pickling and slicing. 6 inches, uniform, 60 days	.25	.85	2.50	
*Davis Perfect. Fine slicing variety. Good shipper. 9-11 inches. Good for greenhouse growing	.25	.85	2.50	
Early Fortune. Fine for slicing or ship-ping. Dark green. 9 inches. 68 days	.25	.85	2.50	
Imp. Long Green. Ideal for slicing or chunk pickles. Dark green, few seeds, 12 in. long	.30	1.00	3.00	
*Longfellow. 72 days. One of the main forcing varieties. 12 to 14" long, dark green and few seeds	.35	1.20	3.50	
Small Gherkin. A favorite for pickling. Only 2 in. long and very prolific	.30	1.00	3.00	
Straight 8. (All America Gold Medal Winner.) Outstanding variety, producing cylindrical fruits $1\frac{1}{2}$ inches in diameter; deep green and an ideal shipper	.30	1.00	3.00	

EGG PLANT

(About 6000 seeds per oz.) 1 oz. 4 ozs. 1 lb.
Sow in February/March for plant sales. Space plants 18x24".

Black Beauty. Popular home and market variety. Dark purple. Broad egg-shaped	\$0.60	\$2.00	\$6.00
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Improved Large Purple (Spineless). The standard sort, early, good producer	.60	2.00	6.00
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ENDIVE

(1 oz. for 100-foot row) Deep Heart Fringed. New ideal upright growing type, combining fringed leaves with a compact well-blanchend heart	.20	.60	1.75
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KALE

(1 oz. for about 7000 seeds) Dwarf Green Curled. Very hardy, 12-15 inches tall, 30-in. spread Finely curled	.25	.85	2.50
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KOHLRABI

(About 7000 seeds per oz.) *Early White Vienna. Standard sort for forcing and home garden. Globe-shaped	.60	2.00	6.00
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LEEK

(About 9000 seeds per oz.) Monstrous Caretan. Stem 8 in. Best Strain of this fine "Asparagus-type" of the Onion family. Good keeper. $\frac{1}{4}$ oz., 30c	.85	2.85	8.50
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LETTUCE

(15,000 seeds per oz., $\frac{1}{4}$ oz. for 100-foot row.) There is a premium on lettuce PLANTS as they are readily transplanted in bands and heading varieties will make large solid heads, if set out early, even before late frost is over. Sow March 15 or 4 weeks before setting out plants. Space 14x18".			
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Big Boston

Select stock. Popular HEAD-ING Lettuce. Largely used for summer and fall hot-bed and cold-frame culture	.20	.70	2.00
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Black-Seeded Simpson

Early, dependable everywhere. LOOSE-LEAVED and frilled, grows quickly, fine quality	.20	.60	1.75
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*Grand Rapids Forcing

The standard LOOSE-LEAVED variety for greenhouse forcing. Tender and sweet. Best early	.20	.60	1.75
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Imperial #44

The surest HEADING variety also less susceptible to tip burn. Highly recommended for plant sales	.30	1.00	3.00
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Looseleaf Prizehead

Dependable, quick growing, all-green strain, with outer leaves tinged red. Crisp, sweet, finest quality	.20	.60	1.75
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New York. No. 12 or WONDERFUL

Early sure HEADING does well in mid-summer	.30	1.00	3.00
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MUSK MELON

(9000 seeds per oz.) Potted or banded melon plants are good sales items. Sow 3-4 seeds in each band about April 20.			
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Honey-Dew—MILDEW RESISTANT

115 days. Green fleshed smooth fruits of ivory color, 8 by 6 in. Good keeper	.25	.85	2.50
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Honey Rock

NEW. 85 days. Flesh orange, sweet and of finest flavor. Good shipper	.30	.85	2.50
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Pride of Wisconsin

86 days. Thick, orange-fleshed, popular	.30	1.00	3.00
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Resistant No. 45 or Hale's Best

90 days. Flesh thick salmon color, firm and dry. Resistant to mildew	.25	.85	2.50
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Rocky Ford or Netted Gem

90 days. Green fleshed. Oval 5 in. long. Well-known dependable market variety	.25	.85	2.50
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WATER MELON

Harris Earliest. 80 days. Fruits oval	.15	.45	1.25
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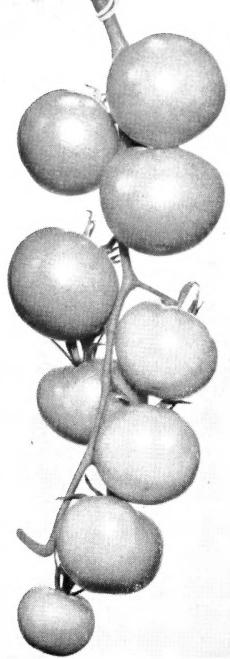
Stone Mountain

95 days. Fruits large, almost round. Good keeper	.15	.45	1.25
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Citron.

95 days. White-fleshed strain, ideal for preserving	.15	.50	1.50
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Vegetable Seeds for Florists (Continued)



Waltham Forcing — Valuable introduction among the greenhouse forcing varieties.

TOMATO, Continued

Crimson Cushion or Beefsteak.	Large, round, bright scarlet; solid; very prolific.	.50	1.75	5.00
Dwarf Champion.	Tree-like. Requires no support; medium size, solid pink fruit.	.50	1.75	5.00
Dwarf Stone.	81 days. Strictly dwarf, tree-like, fruits bright red, smooth and solid.	.50	1.75	5.00
Earlianiana.	Medium size, deep scarlet, firm and smooth. 64 days. Best all-around early variety for home gardeners.	.50	1.75	5.00
Early Detroit.	Valuable for shipping. Pink, medium large, smooth fruit. 78 days.	.45	1.50	4.50
Globe. (LIVINGSTON'S)	Heavy producer. Large purplish pink fruit; smooth and solid.	.50	1.75	5.00
Golden Queen.	83 days. Best large yellow fruited; firm and smooth, mild flavor.	.50	1.75	5.00
Greater Baltimore.	Mid-season. Earlier than Stone, heavy producer, deep scarlet.	.30	1.00	3.00
Supreme Gulf State Certified.	Very fine second early, crimson, medium size, very solid, thick-skinned, and smooth.	.60	2.00	6.00
John Baer.	Standard all-purpose variety, second early, medium size, red.	.50	1.75	5.00
June Pink.	Earliest pink, early shipper.	.40	1.35	4.00
*Master Marglobe. CERTIFIED.	Valuable for shipping and HIGHLY RESISTANT. Smooth, of distinct quality and long bearing. 75 days. Extra select stock.	.60	2.00	6.00

***Waltham Forcing.** NEW. Developed by Massachusetts Agricultural Experiment Station. Outstanding for firmness and a high yield of even-sized, 4-oz. scarlet fruits. Self-pollinating. Our own greenhouse grown seeds from selected plants and fruits. Tr. pkt., 50c; $\frac{1}{4}$ oz., \$1.00; 1 oz., \$3.50.

1 oz. 4 ozs. 1 lb.

Bonny Best. Unexcelled for all purposes. Smooth and firm. 73 days. .50 \$0.50 \$1.75 \$5.00

Break-O'Day. Early WILT-RESISTANT, globe-shaped. Heavy producer, flesh firm. .45 1.50 4.50

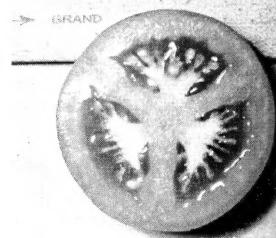
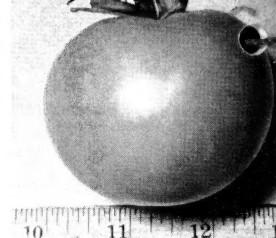
Chalk's Early Jewel. 75 days. Heavy producer, scarlet - red, smooth and firm. .45 1.50 4.50

TOMATO, Continued
1 oz. 4 ozs. 1 lb.

Oxheart. 90 days. Extra large, heart-shaped, few seeds, mild flavor. .85 \$2.65 \$8.50

Penn State Earlianiana. Extra early, red large, smooth, mild and solid—good producer. .60 2.00 6.00

Ponderosa. Extremely large; purplish pink, few seeds, mild flavor. 85 days. .55 1.85 5.50



Sectional view of Waltham Forcing Tomato.

1 oz. 4 ozs. 1 lb.

Pritchard. (Scarlet Topper). Fine all-round variety, heavy yielder; second early; WILT-RESISTANT; fruit solid. .45 \$1.50 \$4.50

Rutgers. Second early. Desirable for market gardeners; bright red, smooth, thick walls—firm and mild. .40 1.35 4.00

Stone. 85 days. Valuable for market and canning; heavy producer; deep scarlet. .30 1.00 3.00

Victor. 65 days. NEW, extra early. Fruits scarlet and 3 to 4" in diameter. Determinate vine. All-America Winner. .55 1.85 5.50

Red Cherry. Small fruited. .45 1.50 4.50

Yellow Plum. Small fruited. .45 1.50 4.50

Yellow Pear. Small fruited. .45 1.50 4.50

Yellow Husk or Ground Cherry. .45 1.50 4.50

TURNIP (1 oz. per 100-foot row)

Purple-Top White Globe. .15 .30 .90

POPULAR HERBS

Ten Varieties

Because of their decorative appearance as well as aromatic, medicinal and high flavoring value, collection boxes of banded and assorted plants will prove a popular spring seller. Leaflet describing each variety and its uses forwarded with orders for the collection offer of 10 packets, or on request.

Anise* **Basil*** **Borage*** **Coriander*** **Dill*** **Fennel***
Peppermint* **Sage*** **Savory (Bohnenkraut)***
Thyme*

Tr. pkt. which will make 250 plants or more. 15c
5 Tr. pkts., of one variety. 60c
10 Tr. pkts., one of each variety. \$1.00

Also see: Chives, Parsley and Lavandula (Lavender)

BALL BETTER PLANT BANDS

FOR YOUR EVERY
NEED . . .



PLACING THE BANDS



FILLING THE BANDS



REMOVING THE BANDS

A putty knife is the easiest way to open these bands. Give the bands a light spray with water before opening. The long fibered spruce used in these bands prevents breaking at the folds.

Disease-free, Ball Bands do not contain materials injurious to plant life.

The same method may be used whether your bands are in flats or placed in entire bench. Larger sizes available with bottoms to prevent loss of soil in moving. This arrangement of bands assures more uniform moisture supply for your seedlings.

An upward stroke along the fold with a sharp knife quickly removes the bands. Some growers leave plants right in bands. The extra soil— $\frac{1}{2}$ times that of the same size clay pot—makes it unnecessary to shift your plants.

ORDER NOW! Sizes and Prices

Prices given are F.O.B. our Warehouse, West Chicago and are subject to change without notice.

Wt. per 1000	Wt. per 1000	WITH BOTTOMS		
		4x4x4	4x4x4	6x6x6
1 $\frac{1}{4}$ x1 $\frac{3}{4}$ x2 $\frac{1}{2}$ 500....\$1.45	500....\$2.75	63 lbs.	500....\$4.00	500....\$10.15
1000....2.75 19 lbs.	1000....5.30	1000....7.75 72 lbs.	1000....20.10 180 lbs.	
2x2x3 500....\$1.65	3x3x6 500....\$3.40		4x4x6 500....\$5.65	6x6x9 500....\$14.50
1000....3.10 24 lbs.	1000....6.50	66 lbs.	1000....11.10 112 lbs.	1000....28.75 350 lbs.
2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x3 500....\$1.75	1000....9.70	82 lbs.	6x6x4 500....\$8.00	6x7x2 $\frac{1}{2}$ 500....\$6.90
1000....3.30 33 lbs.	4x4x6 500....\$4.95		1000....15.80 160 lbs.	1000....13.65 155 lbs.
3x3x3 500....\$2.10				
1000....3.95 38 lbs.	6x6x6 500....\$6.25			
3x3x4 500....\$2.45	1000....12.00	98 lbs.		
1000....4.65 44 lbs.	6x6x9 500....\$9.90			
4x4x3 500....\$2.25	1000....19.60 250 lbs.			
1000....4.30 45 lbs.				

Quantity discount of 5% is allowed on orders of 25,000 made up of various sizes. If interested in larger quantities write us.

TO AVOID DELAY IN SHIPPING
tell us which way to ship your bands.
Freight is cheapest—Express is faster.



OUR MUM CUTTING CATALOG

has been mailed to everyone receiving this catalog. The shortage of labor has already created a strong demand for mum cuttings. For this reason we urgently advise ordering early. Every choice or worth while variety in all classes will be found offered in this catalog that also features the finest standard and novelty carnations.





Gro. J. Ball
I N C.
WEST CHICAGO
ILLINOIS

PETUNIAS The wide range of choice types available and their value for fine pot plants and bedding explains their ever-increasing use. Our Ball Dwarf Giant No. 1, pictured, is the most uniformly dwarf strain of it. It is one of our invaluable specialties.

**"*BETTER*
Flower Seeds for Florists"**